CONSTRUCTION NEWS

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
Mar. 5	Bay City, Mich.	Feb. 15
Mar. 5	Slayton, Minn.	Feb. 22
Mar. 5	Greensboro, N. C.	Mar. 1
Mar. 5	Brackenridge, Minn.	Mar. 1
Mar. 6	Toronto, Ont.	Feb. 1
Mar. 7	Rawlins, Wyo.	Feb. 1
Mar. 7	Baltimore, Md.	Feb. 15
Mar. 7	San Francisco, Calif.	Mar. 1
Mar. 7	Casselton, N. D.	Mar. 1
Mar. 8	Ft. Stockton, Tex.	Feb. 22
Mar. 12	Bay City, Mich. Adv. Mar. 1.	Mar. 1
Mar. 12	Buffalo, N. Y.	Mar. 1
Mar. 13	Shamrock, Tex.	Mar. 1
Mar. 13	St. Louis, Mo.	Mar. 1
Mar. 14	Delaware, O.	Mar. 1
Mar. 15	Oxford, Miss. Adv. Feb. 22 and Mar. 1.	Mar. 1
Mar. 16	Cleveland, O.	Mar. 1
Mar. 20	Brooklyn, N. Y. Adv. Feb. 22 and Mar. 1.	Feb. 22
Mar. 20	Brooklyn, N. Y. Adv. Mar. 1.	Mar. 1
Mar. 20	Canandaigua, N. Y. Adv. Mar. 1.	Mar. 1
Mar. 21	Roxboro, N. C. Adv. Mar. 1.	Mar. 1
Mar. 28	Wheeling, W. Va. Adv. Mar. 1.	Mar. 1

SEWERS

Mar. 5	Portland, Ore.	Feb. 22
Mar. 5	Pleasant Ridge, Mich.	Mar. 1
Mar. 7	Casselton, N. D.	Mar. 1
Mar. 7	Maplewood (St. Louis P. O.), Mo.	Mar. 1
Mar. 9	Milwaukee, Wis. Adv. Feb. 22 and Mar. 1.	Mar. 1
Mar. 9	Long Island City, N. Y.	Mar. 1
Mar. 9	New York, N. Y.	Mar. 1
Mar. 12	New Castle, Pa.	Jan. 25
Mar. 13	Matawan, N. J.	Feb. 15
Mar. 19	Pleasant Ridge, Mich. Adv. Mar. 1.	Mar. 1
Mar. 19	Plainfield, N. J. Adv. Mar. 1.	Mar. 1
Mar. 21	Tonawanda, N. Y. Adv. Mar. 1.	Mar. 1
Mar. 26	Glen Rock (Ridgewood P. O.), N. J.	Mar. 1

WASTE DISPOSAL

Mar. 22	Marion, Wis.	Feb. 22

BRIDGES

Mar. 6	Port Elgin, Ont.	Mar. 1
Mar. 7	Marion, Ia.	Mar. 1
Mar. 8	Columbus, Kan.	Feb. 22
Mar. 9	Indianapolis, Ind.	Mar. 1
Mar. 9	Normal, Ill. Adv. Mar. 1.	Mar. 1
Mar. 12	Kansas City, Kan.	Mar. 1
Mar. 12	Akron, O.	Mar. 1
Mar. 13	Media, Pa. Adv. Mar. 1.	Mar. 1
Mar. 14	Washington, Ia.	Mar. 1
Mar. 14	Kentucky	Mar. 1
Mar. 15	Grand Forks, N. D.	Mar. 1
Mar. 15	Oskaloosa, Kan.	Feb. 22
Mar. 20	Manchester, N. H. Adv. Feb. 22 and Mar. 1.	Feb. 22
Mar. 21	Brainerd, Minn.	Feb. 15
Mar. 27	Wilkes-Barre, Pa. Adv. Mar. 1.	Mar. 1
Apr. 1	Wilkes-Barre, Pa.	Dec. 14
Sept. 1	Sydney, New South Wales, Australia	Aug. 3

EXCAVATION, DRAINAGE, IRRIGATION

Mar. 5	Oregon	Feb. 22
Mar. 6	Holly, Colo.	Mar. 1
Mar. 10	Monte Vista, Colo. Adv. Mar. 1.	Mar. 1
Mar. 13	Corcoran, Calif.	Mar. 1
Mar. 19	Selmer, Tenn.	Mar. 1
Mar. 21	Newton, Ia.	Mar. 1

STREETS AND ROADS

Mar. 5	Hillsdale, Mich.	Jan. 25
Mar. 5	Casper, Wyo.	Feb. 15
Mar. 5	Jasper, Ind.	Mar. 1
Mar. 5	Huntingburg, Ind.	Mar. 1
Mar. 5	Evansville, Ind.	Mar. 1
Mar. 5	Warsaw, Ind.	Mar. 1
Mar. 5	Wanakah (Hamburg P. O.), N. Y.	Mar. 1
Mar. 5	Kankakee, Ill.	Mar. 1
Mar. 6	Fond du Lac, Wis.	Mar. 1
Mar. 6	West Virginia	Feb. 15
Mar. 6	Norwalk, Conn.	Feb. 22
Mar. 6	Louisiana	Feb. 22
Mar. 6	Royal Oak, Mich.	Feb. 22
Mar. 6	Michigan	Feb. 22
Mar. 6	Logansport, Ind.	Mar. 1
Mar. 6	Boonville, Ind.	Mar. 1
Mar. 6	Valparaiso, Ind.	Mar. 1
Mar. 6	Maryland Adv. Mar. 1.	Mar. 1
Mar. 6	Hammond, Ind.	Mar. 1
Mar. 6	Ripley, W. Va.	Mar. 1
Mar. 6	Eldorado, Tex.	Mar. 1
Mar. 6	Charlotte, N. C.	Mar. 1
Mar. 7	Quebec	Feb. 22
Mar. 7	Ontario	Feb. 22
Mar. 7	Chester, S. C.	Mar. 1
Mar. 7	Lakefield, Minn.	Mar. 1
Mar. 7	Salina, Kan.	Mar. 1
Mar. 7	Waukesha, Wis.	Mar. 1
Mar. 7	Baltimore, Md.	Mar. 1
Mar. 8	Columbus, Kan.	Feb. 22
Mar. 8	Akron, O.	Mar. 1
Mar. 9	Cincinnati, O.	Mar. 1
Mar. 9	Wayne, W. Va.	Mar. 1
Mar. 12	Evansville, Ind.	Mar. 1
Mar. 12	Bradentown, Fla.	Mar. 1
Mar. 12	Dayton, O.	Mar. 1
Mar. 12	Chicago, Ill.	Mar. 1
Mar. 13	Washington	Mar. 1
Mar. 13	Louisiana	Mar. 1
Mar. 13	Wallingford, Conn. Adv. Mar. 1.	Mar. 1
Mar. 13	Mantorville, Minn.	Mar. 1
Mar. 13	South Bend, Ind. Adv. Mar. 1.	Mar. 1
Mar. 13	Ohio	Mar. 1
Mar. 14	Mayville, Wis.	Feb. 15
Mar. 14	Virginia Adv. Mar. 1.	Mar. 1
Mar. 14	Kentucky	Mar. 1
Mar. 15	New Richmond, Wis.	Mar. 1
Mar. 15	Faribault, Minn.	Mar. 1
Mar. 16	Kenosha, Wis.	Mar. 1
Mar. 16	Ft. Scott, Kan.	Mar. 1
Mar. 16	Independence, Ia.	Mar. 1
Mar. 20	Alabama	Feb. 22
Mar. 21	Madison, Wis.	Feb. 22
Mar. 22	Madison, Wis.	Feb. 22
Mar. 23	Madison, Wis.	Feb. 22
Mar. 23	Commerce, Tex.	Mar. 1
Apr. 1	Huntingdon, Pa.	Feb. 8
Apr. 3	Amsterdam, N. Y.	Feb. 1
Apr. 23	Spokane, Wash.	Feb. 1

INDUSTRIAL WORK

Mar. 6	De Quincy, La.	Feb. 22
Mar. 6	Altoona, Pa.	Mar. 1
Mar. 6	Baltimore, Md.	Mar. 1
Mar. 10	St. Louis, Mo.	Mar. 1
Mar. 14	Garfield, N. J.	Mar. 1
Mar. 27	Oswego, N. Y. Adv. Mar. 1.	Mar. 1

BUILDINGS

Mar. 5	Albany, N. Y.	Feb. 15
Mar. 5	Oakland, Calif.	Feb. 22
Mar. 5	Tuscon, Ariz.	Feb. 22
Mar. 5	Belleville, Ont.	Mar. 1
Mar. 5	Cleveland, O.	Mar. 1
Mar. 6	San Antonio, Tex.	Mar. 1
Mar. 7	Phila., Pa.	Mar. 1
Mar. 7	Crockett, Calif.	Mar. 1
Mar. 8	Phila., Pa.	Mar. 1
Mar. 9	Wapello, Ia.	Feb. 15
Mar. 10	Greenfield, O.	Feb. 15
Mar. 10	Cortland, N. Y.	Feb. 22
Mar. 12	Wichita, Kan.	Feb. 15
Mar. 12	Lorain, O.	Mar. 1
Mar. 12	Mount Blanchard, O.	Mar. 1
Mar. 14	Buffalo, N. Y.	Feb. 22
Mar. 14	Duncannon, Pa.	Feb. 22
Mar. 14	Lancaster, Wis.	Mar. 1
Mar. 15	Duluth, Minn.	Jan. 18
Mar. 15	Trenton, N. J.	Jan. 11
Mar. 15	Austin, Tex.	Mar. 1
Mar. 16	Atlanta, Ga.	Mar. 1
Mar. 16	Minnetonka Beach, Minn.	Mar. 1
Mar. 17	Virginia, Minn.	Mar. 1
Mar. 19	Erie, Pa.	Feb. 15
Mar. 20	Stockton, Calif.	Feb. 22
Mar. 23	Shreveport, La.	Nov. 9
Mar. 26	Cincinnati, O.	Mar. 1
Apr. 1	Oil City, Pa.	Jan. 18
Apr. 2	Syracuse, N. Y.	Mar. 1

FEDERAL GOVERNMENT WORK

Mar. 2	Dredging—New York, N. Y. Adv. Feb. 8 to Mar. 1.	Feb. 8
Mar. 5	Protection, etc. — Boston, Mass.	Feb. 8
Mar. 6	Towboat—Nashville, Tenn. Adv. Feb. 8 to Mar. 1.	Feb. 8
Mar. 7	Dredging — Providence, R. I. Adv. Feb. 8 to Mar. 1.	Feb. 15
Mar. 7	Riprapping — Mare Island, Calif.	Feb. 15
Mar. 7	Alterations, etc.—Brooklyn, N. Y.	Feb. 22
Mar. 10	Wreck Removal — Buffalo, N. Y. Adv. Mar. 1.	Mar. 1
Mar. 12	Barge—Florence, Ala. Adv. Feb. 15 to Mar. 1.	Feb. 15
Mar. 13	Turbine and Generator, etc.—Riverton, Wyo.	Feb. 15
Mar. 14	Storehouse — San Diego, Calif.	Feb. 22
Mar. 14	Cranes — Puget Sound, Wash.	Feb. 22
Mar. 14	Hangars—Quantico, Va.	Mar. 1
Mar. 14	Extension—Keyport, Wash.	Mar. 1
Mar. 15	Dredging—New York, N. Y. Adv. Feb. 15 to Mar. 1.	Feb. 15
Mar. 17	Houses — Huntington, W. Va. Adv. Feb. 15 to Mar. 1.	Feb. 15
Mar. 20	Dredging—Detroit, Mich. Adv. Feb. 22 and Mar. 1.	Feb. 22
Mar. 21	Dredging—Phila., Pa. Adv. Feb. 22 and Mar. 1.	Feb. 22
Mar. 21	Dredging—Detroit, Mich. Adv. Feb. 22 and Mar. 1.	Feb. 22
Mar. 22	Tank and Tower — Memphis, Tenn. Adv. Feb. 22 and Mar. 1.	Mar. 1
Mar. 26	Extension — Kansas City, Mo. Adv. Mar. 1.	Mar. 1
Mar. 29	Dredging — New York, N. Y. Adv. Mar. 1.	Mar. 1
Mar. 29	Hospital — Livermore, Calif. Adv. Mar. 1.	Mar. 1
Apr. 10	Lock—Newburg, Ind. Adv. Mar. 1.	Mar. 1
Apr. 12	Machinery, etc. — Honolulu, H. T. Adv. Mar. 1.	Mar. 1
Apr. 16	Tunnel, etc. — Mitchell, Neb. Adv. Mar. 1.	Mar. 1
May 10	Post Office — Cordova, Alaska	Jan. 25

MISCELLANEOUS

Mar. 5	Portland Cement—Waterloo, Wis.	Feb. 22
Mar. 5	Trailers—San Jose, Calif.	Feb. 22
Mar. 5	Paving Stone, etc. — Buffalo, N. Y.	Mar. 1
Mar. 5	Supplies—Hamilton, Ont. Adv. Feb. 22 and Mar. 1.	Feb. 22
Mar. 5	Paving Materials — St. Paul, Minn.	Mar. 1
Mar. 6	Road Maintenance Machine—Stillwater, Minn.	Feb. 15
Mar. 6	Lumber, etc.—Council Bluffs, Ia.	Feb. 22
Mar. 7	Lumber and Metal—Anamosa, Ia.	Mar. 1
Mar. 7	Lumber, Piling, etc.—Oskaloosa, Ia.	Mar. 1
Mar. 7	Stadium—Baltimore, Md.	Mar. 1
Mar. 8	Road Oil, etc.—Brantford, Ont.	Mar. 1
Mar. 8	Building Materials — New York, N. Y.	Mar. 1
Mar. 9	Steel Pipe, etc.—New York, N. Y.	Mar. 1
Mar. 9	Brick Chimney — Milwaukee, Wis.	Mar. 1
Mar. 9	Lumber, Piling, etc.—Winterset, Ia.	Mar. 1
Mar. 10	Road Grader — Armstrong Mills, O.	Mar. 1
Mar. 13	Levee Work — Clarksdale, Miss.	Mar. 1
Mar. 14	Tank Trailors — Hackensack, N. J. Adv. Mar. 1.	Mar. 1
Mar. 14	Lumber, etc. — Washington, Ia.	Mar. 1
Mar. 15	Graders and Tractors — Crookston, Minn.	Mar. 1
Mar. 15	Dry Dock Machinery—Esquimalt, B. C.	Feb. 22
Mar. 20	Elevating Grader, etc.—St. Cloud, Minn.	Mar. 1

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Conn., Wallingford—Water Dept. takes bids latter part of month new c.i. mains to reservoir, and rein.-con. tunnel through one of hills, etc. $150,000. W. A. Mackenzie, boro. engr. Noted Jan. 4.

N. Y., Ballston Spa.—Bd. Village Trustees and Chamber of Commerce plans new water supply from Crook Brook. $100,000. J. L. Tracy, village pres.

Md., Baltimore—See "Miscellaneous."

N. C., Burlington — See "Streets and Roads."

O., Columbus—See "Streets and Roads."

Wis., Waupun—Making plans 80,000 gal. tank on new steel tower about 74 ft. high, also one 60,000 gal. tank, 20 ft. diameter, 26 ft. high, to be built on present masonry tower. W. G. Kirchoffer, Dean Bldg., Madison, engr.

Ia., Ames—Takes bids early in spring extensions to waterworks. $75,000. P. F. Hopkins, Ames, engr.

Minn., Brainerd—Soon takes bids 200 hp. engine and generator, for waterworks pumping station. E. T. Flewer, clk. L. P. Wolff, 1000 Guardian Life Bldg., St. Paul, engr. Noted May 11.

Tex., Rule—Voted $54,000 bond issue for mains, wells and pumps. Address B. L. Jackson, Rule. Engineer not announced.

Wash., Longview—See "Dams."

Calif., San Bruno—Plans improvements to waterworks system. $50,000. G. A. Kneese, Courthouse, Redwood City, engr.

Ont., Toronto — Having plans prepared 15,500 ft. 36 in. c.i. mains from Front St. to Rathnally Ave. $723,000. R. C. Harris, city engr.

Ont., Toronto—Plans to expend $150,945 for 25,000,000 imp. gal. pump at high level waterworks pumping station. R. C. Harris, city engr.

Ont., Toronto—Plans new pumping station at Riverdale in connection with waterworks program. $200,000. R. C. Harris, city engr.

BIDS DESIRED

N. Y., Brooklyn—March 20, by Bd. Water Supply, Municipal Bldg., New York, constructing Narrows Siphon 2, a portion of Catskill Aqueduct extending across narrows of New York Harbor from 86th St. and Shore Rd., Bay Ridge, here, to Vanderbilt Ave. and Bay St., Clifton, Staten Island, Contr. 198. G. J. Gillespie, pres., adv. this issue.

N. Y., Buffalo — March 12, by A. W. Kreinheder, comr. Pub. Wks., Municipal Bldg., furnishing and delivering pipe castings for Buffalo Filter Plant. G. C. Andrews, Col. Ward Pumping Sta., engr.

N. Y., Canandaigua—March 20, by Bd. Pub. Wks., City Hall, trenching and laying c.i. mains. W. S. Lozier, 321 Cutler Bldg., Rochester, consult engr.; adv. this issue.

W. Va., Wheeling—March 28, 20,000,000 gal. filtration plant, pumping station, steel reservoirs, force mains, distribution system, piping and appurtenances. W. M. Evans, city clk.; adv. this issue.

N. C., Roxboro—March 21, by Mayor and Bd. Comrs., waterworks improvements. Ludlow Engineers, Winston-Salem, engrs.; adv. this issue.

N. C., Greensboro — March 5, by City Council, 7 mi. 6-20 in. c.i. water pipe and 5 mi. 6-12 in. sewer pipe, all complete in place. P. C. Painter, city mgr.

Miss., Oxford—March 15, by R. J. Farley, mayor, and Aldermen, engine, generator and switchboard equipment. T. M. Early, supt. Water and Light Plant; adv. this issue.

O., Cleveland—March 16, 190 x 193 ft. pumping station, 67 ft. high, brick, steel and concrete. $500,000. A. V. Ruggles, City Hall, engr.

O., Delaware—March 14, by W. H. Duffy, pres. Bd. Purch., Oak and 9th Sts., Columbus, one 400 g.p.m. duplex steam pump, and two 500 g.p.m. vertical centrifugal pumps electrically driven, to replace waterworks plant at Girls Industrial Home, Concord, Delaware Co., near here.

Mich., Bay City — March 12, at office W. H. Reid, city mgr., furnishing and installing filter plant equipment, electric lighting and power wiring pumping station and filtration plant, plumbing for pumping station and filtration plant, heating for pumping station and filtration plant, low service pumps, high and low pressure steam and water piping in pumping station. Frazier-Ellms-Sheal Co., B. F. Keith Bldg., Cleveland, O., engrs.; adv. this issue.

Minn., Brackenridge—March 5, by R. R. Waite, city clk., gate valves, hydrants and fittings for Water Dept.

N. D., Casselton—March 7, by C. D. Smith, city aud., waterworks system incl. 1,815 lin.ft. 4 in. 32,140 lin.ft. 6 in. 2,490 lin.ft. 8 in. c.i. pipe, hydrants, etc. $35,000. C. L. Pillsbury Co., 1200 2nd Ave. S., Minneapolis, Minn., engrs.

Mo., St. Louis—March 13, by Bd. Pub. Serv., 208 City Hall, 380 ton Class B 6 in., 50 ton Class C 8 in., 660 ton Class C 12 in. and 110 ton Class C 20 in. Amer. Waterworks Standard coated c.i. pipe.

Tex., Shamrock — March 13, gravity supply pipe line system and storage resevoir, involving 2,600 lin. ft. 4 in. vitr. sewer pipe, 11,500 lin.ft. 4-6 in. c.i. soil pipe, 2,700 lin.ft. 6 in. galvanized iron pipe, 63,500 lin.ft. 6 in. wood or c.i. pipe, 26 air valves, 4 concrete wells, 29,550 lin.ft. 1¼-2 in. galvanized iron pipe, one 100,000 gal. concrete storage reservoir. J. D. Trammell, 511 Wright Bldg., Tulsa, Okla., consult. engr.

Calif., San Francisco—March 7, by Bd. Pub. Wks., high pressure fire mains and appurtenances in portions Leavenworth, Beach, Jones and Jefferson Sts. $18,000. City will furnish pipe and fittings not included in estimated cost. M. M. O'Shaughnessy, city engr. Noted Feb. 15.

BIDS RECEIVED

O., Cleveland—Furnishing coal and ash handling equipment for Fairmont Pumping Sta., from Sternes Conveyor Co., East 200th St. and St. Clair Ave., $52,900, Webster Mfg. Co., Swetland Bldg., $55,335, Stevens Adamson Co., Chicago (street address not available) $59,700; 200 ft. chimney, 13 ft. base, from Alphonse Custodias Chimney Constr. Co., Guardian Bldg., $12,430, Hoosier Stack & Constr. Co., 3323 East Washington St., Indianapolis, Ind., $12,786, H. R. Heinicke, Inc., 147 4th Ave., New York City, $13,971; feed water heater, from Fulton Fdry. & Machine Co., East 75th St. and Morgan Ave., $2,233, Swartout Co., 84th St. and Detroit Ave., $2,792; equipment for make up water, from International Filter Co., 333 West 25th St., Chicago, $4,085, Wayne Tank & Pump Co., Ft. Wayne, Ind. (street address not available) $7,950.

O., Wellsville—Dept. Pub. Serv. opened bids Feb. 14, earthen reservoir, from A. W. Hinaman, Canton, Pa., $114,083, Allison Harris Co., West Liverpool, $117,214, Ambursen Constr. Co., Grand Central Terminal, New York City, $141,505; furnishing and laying 300 ft. 30 in., 11,000 ft. 16 in., 52,744 ft. 16 in., and 78 ft. 4 in. c.i. pipe, manholes, covers and relaying brick pavement, etc., from J. A. Grimes, Portsmouth, $110,825; trenching and laying above pipe, manholes, covers, etc., from Allison Harris Co., East Liverpool, $49,588; furnishing above pipe only, from U. S. Cast Iron Pipe & Fdry. Co., 412 Oliver Bldg., Pittsburgh, Pa., $56,029; furnishing 300 ft. 30 in. c.i. pipe and 18 ton special, furnishing and installing 16,274 ft. continuous stave Redwood pipe ranging from 70 to 180 ft. head, also 16,274 ft. 16 in. machine banded redwood pipe, from Pacific Tank & Pipe Co., 2 Rector St., New York City, $46,278. Noted Jan. 25.

CONTRACTS AWARDED

N. Y., Albany—Bd. Contract & Supply, 6 in c.i. pipe, to Warren Fdry. & Machine Co., 11 Bway., New York City, $58 per ton, total $1,160.

N. Y., Buffalo—A. W. Kreinheder, comr. Pub. Wks., Municipal Bldg., furnishing c.i. pipe and specials, to U S. Cast Iron Pipe & Fdry. Co., 957 East Ferry St., $95,148; 341 valves, to Rensselaer Valve Co., Ontario St., Troy, $10,687; 100 hydrants, to Howard Iron Wks., 287 Chicago St., $82.75 each; 100 hydrants, to R. D. Wood & Co., 300 Chestnut St., Phila., $66.30 each. Noted Feb. 1.

O., Bexley (Columbus, P. O.) — See "Streets and Roads."

O., Cleveland—Cuyahoga Co. for 16,160 ft. 6 and 8 in. c.i. mains in impvt. 16 C of Co. Water Dist., to Langahan Constr. Co., Marshall Bldg., $40,197. Noted Feb. 22.

Ill., Marengo—For 6,000 ft. 4 in. and 1,200 ft. 6 in. mains, 4,250 ft. 8 in. and 3,200 ft. 10 in. sewers, to Hamilton Bros., Ann Arbor, Mich., $20,202. Noted Feb. 8.

Wis., Appleton—For 156 ton 12 in., 132 ton 6 in., 6 ton 8 in. and 23 ton 4 in. c.i. water pipe, to Lynchburg Fdry. Co., Peoples Natl. Bank Bldg., Lynchburg, Va., $17,732; 300 sets of brass service material, to Mueller Mfg. Co., 512 West Cerro Gordo St., Decatur Ill., $1,374; 6½ ton pig lead and 11 ton ¾ in. lead pipe, to Raymond Lead Wks., 725 South Washtenaw Ave., Chicago, $1,105 and $2,090 respectively. Noted Feb. 8.

Wis., Milwaukee — Furnishing 3,000 ton 6-16 in. Class C pipe, to U. S. Cast Iron Pipe & Fdry. Co., 122 South Michigan Ave., Chicago, $159,700; 100 ton special castings, to Amer. Cast Iron Pipe Co., 18 South Dearborn St., Chicago, $9,500. Noted Feb. 1.

Ia., Van Horne—To Des Moines Steel Co., 5th and Tuttle Sts., Des Moines, 5,000 ft. 4 in. Class B c.i. main laid under 5 ft. cover $0.90; 11,000 ft. 6 in. c.i. pipe $1.20; 50,000 gal. steel tank on 100 ft. tower $4,791; concrete for foundations $26 per cu.yd., deep well pumping equipment $2,793; pump house, $835, total $29,200. Noted Nov. 30.

Mo., St. Louis—G. Oetting, supply comr., 200 ton Class C 6 in. c.i. pipe for Water Dept., to Hammond-Byrd Iron Co., Amer. Trust Bldg., Birmingham, Ala., $50.58 per net ton.

Okla., Burbank—Waterworks system, involving 10,171 lin.ft. 4 in. and 3,410 lin.ft. 6 in. Class C c.i. pipe, 4,300 lb. c.i. fittings, 35 hp. engine, pump house, 50,000 gal. tank on 90 ft. tower, open well, 16 ft. diam. 26 ft. deep, etc., to Mackintosh Co., 1st Natl. Bank Bldg., Oklahoma City, $29,949. Noted Jan. 4.

N. M., Artesia—See "Sewers."

Wash., Aberdeen—For 5,000 ft. 16 in. c.i. mains from reservoir to feeders, to Central Fdry. Co., Rialto Bldg., San Francisco, $44,754. Noted Feb. 1.

Sewers

PROPOSED WORK

N. Y., Youngstown—Bd. Village Trustees had plans prepared new sewerage system. $40,000. L. J. Kelly, village pres.

N. J., Hightstown—Plans enlarging sewage plant. $40,000. W. H. Thompson, mayor.

Pa., Lewistown—Having plans prepared and opens bids about May 1, for 6,000 ft. sewers and sewage disposal plant. Banks & Craig, Telegraph Bldg., Harrisburg, engrs.

Md., Baltimore—See "Miscellaneous."

N. C., Burlington — See "Streets and Roads."

Ky., Paducah — City takes bids about March 13, 407 ft. 42 in., 2,817 ft. 36 in., 307 ft. 33 in., 2,286 ft. 21 in., 1,725 ft. 18 in., 2,845 ft. 15 in., 3,506 ft. 12 in. and 940 ft. 10 in. sewers. Alternate bids on concrete segment block, cement, clay, etc. H. A. Pulliam, comr. pub. wks. and ch. engr.

O., Cincinnati—See "Streets and Roads."

O., Columbus—See "Streets and Roads."

O., Warren—Plans storm water sewer in northwest section. $98,000. Engineer not announced.

Ill., Cissna Park—Plans 3,000 ft. sewers. $25,000. C. Blake, Watseka, engr.

Ill., Kankakee—Soldier Creek D.D. plans 8,600 ft. concrete monolithic and segmental block sewers. $350,000. R. Gregg, city engr.

Minn., Lakefield — See "Streets and Roads."

Kan., Independence—Had plans prepared sewage disposal plant, incl. pumping plant, filters and sprinklers. $75,000. H. W. Crawford, Independence, engr.

Mo., Kansas City — Preparing plans 7 mi. of 7 ft. rein.-con. sewers. $2,000,000. P. A. Hartung, City Hall, engr.

Mo., St. Louis—Bd. Pub. Serv., City Hall, received no bids Feb. 13, 1,528 ft. 8-18 in. vitr. sewer in Harlem Creek Sewer Dist. 19; 5,500 ft. 10-24 in. vitr. sewer in Glaise Creek Dist. 20 and 1,065 ft. 8-21 in. vitr. sewer in Glaise Creek Dist. 23. Will readvertise. Noted Feb. 1.

Tex., Nacona—Voted $50,000 bonds for sewerage extensions and improvements. Address Mayor.

Tex., Port Arthur—See "Streets and Roads."

Tex., Rosenberg — Attorney General's Dept., Austin, approved $50,000 bond issue for sanitary sewer extensions and improvements. E. E. Sands, Mason Bldg., Houston, consult. engr. Noted Dec. 28.

Okla., Hugo—March 7, to vote on $25,000 bonds 15,000 ft. lateral sewers and small incinerator. H. G. Hixon, Hugo, engr.

Ont., Chatham — Having plans prepared sanitary sewers in Park Ave., Pegley and Colborne Sts. $35,000. Prices wanted on materials. C. H. Fuller, city engr.

Ont., Hamilton—Plans to extend storm sewer to James St., 2,000 ft. vitr. pipe. $27,000. E. R. Grap, city engr.

Ont., Toronto—Plans to extend and improve rein.-con. sewage disposal plant in North Toronto Dist. $63,188. R. C. Harris, city engr.

Ont., Toronto—Plans relief sewers in (1) Bloor St. via Charles and Church Sts. Park Rd. and Rosedale Creek, (2) Rosedale Creek and Yonge St. via Rosedale Valley Rd. to Don River, 12,000 ft. long, $208,500. R. C. Harris, city engr.

Sewers (Continued)

BIDS DESIRED

Conn., Wallingford — See "Streets and Roads."

N. Y., Long Island City—March 9, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., storm water sewer in 25th St. from point about 100 ft. northerly from north line of Riker to Ditmars Aves.; combined sewer in 25th St. from Riker to Ditmars Aves.; temporary screen and drop chamber at intersection of 25th St. and Riker Ave.; temporary 30 in. sanitary sewer in 25th St. from Riker Ave. to bulkhead line continuing at an angle of 61 degrees with bulkhead line in northerly direction to point about 1,250 ft. beyond pierhead line, 2nd Ward, Contr. 1.

N. Y., New York—March 9, by J. Miller, pres. Manhattan Boro. Municipal Bldg., furnishing and delivering sewer castings, also 2 superstructures for auto trucks (basin cleaning machine).

N. Y., Tonawanda—March 21, by Town Bd. constructing sewerage system, disposal plant and pumping station. G. C. Diehl, 575 Ellicott Sq., Buffalo, town engr.; adv. this issue.

N. J., Glen Rock (Ridgewood P. O.)—March 26, sewerage system, sewage disposal works and pumping station. $310,000. H. J. Harder, 129 Market St., Paterson, engr.

N. J., Plainfield—March 19, by Common Council, about 1,000 lin.ft. 20 in. sanitary sewer, 8-14 ft. deep. A. W. Vars, city engr.; adv. this issue.

N. C., Greensboro—See "Waterworks."

Mich., Pleasant Ridge—March 5, by C. W. Hubbell, engr., 2348 Penobscot Bldg., Detroit, 21,389 ft. sewers, incl. 5,955 ft. 12 in., 3,130 ft. 18 in., 1,305 ft. 20 in., 1,437 ft. 32 in., 1,954 ft. 24 in., 1,213 ft. 27 in., 3,013 ft. 30 in., 812 ft. 33 in., 295 ft. 36 in., 603 ft. 42 in., 307 ft. 48 in., 584 ft. 60 in. and 971 ft. 66 in. vitr. crock, brick, concrete or rein.-con. pipe, for village.

Mich., Pleasant Ridge—March 19, by O. C. Keil, village clk., 24,428 ft. 12-66 in. sewers. C. W. Hubbell, 2348 Penobscot Bldg., Detroit, consult. engr.; adv. this issue.

Wis., Milwaukee—March 9, by Sewerage Comn. at its offices 508 Market St., extensions to intercepting sewerage system. J. H. Fowles, secy.; adv. this issue.

N. D., Casselton—March 7, by City Auditor, sanitary sewer system, 27,924 lin. ft. 8 in., 1,980 lin.ft. 10 in. and 226 x 526 lin.ft. 12 in. sewer pipe, manholes, and 1 sewage disposal tank, etc. $60,000. C. L. Pillsbury Co., 1200 2nd Ave. S., Minneapolis, engrs. Noted Dec. 1, 1921.

Mo., Maplewood (St. Louis P. O.)—March 7, by J. D. Schuster, mayor, City Hall, sewers in Manchester Dist. 2, 16,594 cu.yd. excav., 14,882 lin.ft. 8-36 in. vitr. clay pipe, 794 ft. 42 in. segment block sewer, 33,500 lb. cast and 4,250 lb. wrought iron, etc.; Laclede Sta. Rd. Sewer Dist. 1, 11,597 cu.yd. excav., 378 cu.yd. tunnel work, 9,062 lin.ft. 8-36 in. vitr. clay pipe, 994 ft. 42 in. segment block sewer, 88,900 lb. cast and 4,400 lb. wrought iron, etc.; Caroline Ave. Sewer Dist., 460 cu.yd. excav., 646 ft. 8-12 in. vitr. pipe, 1,875 lb. cast and 222 lb. wrought iron, etc.; Louise Ave. Sewer Dist., 600 cu.yd. excav., 490 ft. 10-12 in. vitr. pipe, 1,200 lb. cast and 157 lb. wrought iron, etc.; Brent St. Sewer Dist., 736 cu.yd. excav., 829 ft. 10-12 in. vitr. pipe, 47,800 lb. cast and 314 lb. wrought iron, etc.; grading and paving 500 ft. Oxford Ave., 24 ft., 6½ in. concrete and 250 cu.yd. grading. A. H. Beard, 616 Title Guaranty Bldg., St. Louis, engr.

BIDS RECEIVED

O., Akron—W. F. Peters, dir. Pub. Serv., opened bids Feb. 19, (1) 2,150 ft. 12-15 in. vitr. sewer in Garry Ave., engrs. est. $9,528 (2) 3,000 ft. 8-30 in. vitr. clay sewer in Tallmadge Ave. engrs. est. $18,222 (3) 2,745 ft. 30-114 in. brick sewer in Willow Run Trunk Sewer Contr. 3 engrs. est. $229,700 (4) 6,010 ft. 8-27 in. vitr. clay sewer in Case Ave. engrs. est. $24,222 (5) Ohio Canal Intercepter Sewer, engrs. est. $62,000, from S. L. Rowland, 769 Bisson Ave., (1) $9,292 (2) $17,749; E. R. Hunt, Akron (street address not available) (1) $10,538 (4) $27,412; F. Mannella, 1811 Foust St., (1) $11,427; Crano & Lombardi, 274 Crosby St., (2) $20,108 (4) $35,104; T. E. McShaffrey Constr. Co., 171 South Forge St., (3) $226,239 (5) brick $82,803; P. W. Graham, 1274 West 108th St., Cleveland (3) $255,607; J. L. Bates, 868 East Buchtel Ave., (4) $26,904; E. and W. McShaffrey Co., 574 Rhodes Ave., (5) segmental block $115,415 (5) brick $130,475. Noted Feb. 15.

Mo., St. Louis—Bd. Pub. Serv., City Hall, opened bids Feb. 13, 5,825 ft. 8-27 in. vitr. sewer in Harlem Sewer Dist. 20 from Frazier-Davis Constr. Co., Arcade Bldg., $26,245; 5,320 ft. 8-30 in. vitr. sewer in Manchester Sewer Dist. 2, from Fruin-Colnon Constr. Co., Merchants-Laclede Bldg., $26,809, Hogan Constr. Co., 2,120 Harris Ave., $28,637. Noted Feb. 1.

Calif., Lodi — Constructing sewage disposal plant, from Davis-Heller-Pearce Co., Delta Bldg., Stockton, $83,169; Gould & Johns' Stockton, (street address not available), $84,516; Youdall & Nysted, Stockton, (street address not available), $84,744. Noted Feb. 1.

Calif., Santa Ana—Joint sewer outfall line into ocean, 1,075 ft. 42 in. segmental block, 325 ft. 42 in. monolithic sewer, laying 800 ft. 42 in. c.i. pipe, etc., from De-Waard & Cobham, Granger Bldg., San Diego, $43,730; P. Barnett, 630 East Washington St., Orange, $59,031.

CONTRACTS AWARDED

Fla., St. Petersburg—Mechanical equipment for sewage screening plant, to Dorr Co., 101 Park Ave., New York City, $6,816. Noted Dec. 28.

O., Bexley (Columbus, P. O.) — See "Streets and Roads."

O., Columbus—W. H. Duffy, dir. Pub. Serv., 1½ mi. 18-48 in. storm and sanitary sewer in Torrence Run, to I. O. Jones, 707 Grove St., $30,164.

O., Dayton—Montgomery Co., 14,770 ft. 8 and 10 in. vitr. sewer in Westwood Sewer Subdistrict B, to Murray & Dill, 18 Cambridge Ave., $29,566. Noted Feb. 15.

Mich., Springwells—B. P. Esper, village clk., 4,720 ft. sewer outlet through Ford property, to R. A. Mercier, 5435 Wesson Ave., Detroit, $219,000. Noted Feb. 8.

Wis., Menasha—Pit and sewage pump house for Shone type of sewage ejector, to A. Nielson & Co., Neenah; ejector, to Yoemans Bros. Co., 209 Grand Ave., Milwaukee, $12,232. Engrs. total est. $25,000.

Wis., Milwaukee—Sewerage Comn., 508 Market St., intercepting sewer in Scott St. from 2nd Ave. to Barclay St., incl. 1,130 lin.ft. 48 in. concrete pipe, 1,550 ft. 48 in. c.i. pipe, to A. H. Prange, 101 Campau Ave., Grand Rapids, Mich., $94,560. Noted Feb. 15.

Ia., Clinton—For sewers in Sewer Dist. 7, between Main and Commercial Sts., to W. B. Carter, United Bank Bldg., Sioux City, 2091 ft. 30 in. vitr. sewer pipe $5.60, 819 ft. 27 in. $4.70, 265 ft. 24 in. $3.26, 872 ft. 18 in. $2.10, 3,156 ft. 15 in. $1.60, 3,258 ft. 12 in. $1.08, 1,718 ft. 10 in. $1, 10,800 ft. 8 in. $0.80, etc., total $49,879. Noted Feb. 15.

Ia., Glidden — For 23,100 lin.ft. 8 in., 4,150 ft. 10 in., 2,410 ft. 12 in. and 420 ft. 15 in. sewers, 75 manholes, etc. to Gjellefald-Chapman Constr. Co., Forest City, $40,744; disposal plant to Sieg Constr. Co., Waterloo, $8,423. Noted July 20.

Mo., St. Louis—Dept. Pub. Serv., City Hall, sewer in Manchester Sewer Dist. 2, 6,000 cu.yd. excav., 2,600 cu.ft. brick masonry, 300 cu.ft. concrete, 300 cu.ft. gravel, 5,320 ft. 8-30 in. vitr. pipe, 11,400 lb. cast and 1,250 lb. wrought iron, etc., to Fruin-Colnon Constr. Co., Merchants-Laclede Bldg., $26,809; Harlem Creek Sewer Dist. 20, 6,225 cu.yd. excav., 300 cu.ft. gravel, 2,800 cu.ft. brick masonry, 5,825 lin.ft. 8-27 in. vitr. pipe, 11,624 lb. cast and 1,105 lb. wrought iron, etc., to Frazier-Davis Constr. Co., Arcade Bldg., $26,245.

Tex., Abilene — For 50,000 ft. 6-8 in. sewer, to Janes Constr. Co., Southwestern Life Bldg., Dallas, $32,500.

N. M., Artesia—To R. M. Irick & Sons, Plainview, Tex., 11,476 lin.ft. 6 in. vitr. pipe $0.26, 21,012 lin.ft. 8 in. $0.42, 2,475 ft. 10 in. $0.58 and 3,656 ft. 12 in. $0.75, 10 flush tanks $90, 99 manholes $92, disposal plant with septic tank, sludge bed, etc., $5,000, total, $34,457, also 1,025 ft. 6 in. c.i. water mains, $1.40 6,970 ft. 4 in. $1.02, etc., total $9,920. Noted Jan. 25.

Calif., Los Angeles — Grading site for outfall sewer treatment plant, involving grading and disposal of 700,000 cu.yd. sand, to J. Balch, 696 12th St., $97,704. Noted Feb. 22.

Waste Disposal

PROPOSED WORK

W. Va., Moundsville—March 8, to vote on $50,000 bonds for incinerator plant and fire department equipment. C. F. Wieneke, mayor.

Okla., Hugo—See "Sewers."

CONTRACTS AWARDED

Pa., Allentown — M. W. Gross, mayor, City Hall, 70 ton per day garbage incinerator, to Roberts Filter Mfg. Co., Darby, $56,200. Noted Feb. 8.

Bridges

PROPOSED WORK

N. Y., Norwich—Plans election to vote on 27,000 bonds steel bridge encased in concrete, across Canasawacta Creek on lower Broad St.

Alabama—See "Streets and Roads."

O., Cincinnati—See "Streets and Roads."

Wis., Appleton — Rejected bids for 2 rein.-con. and steel bridges across Fox River one at Cherry St. other at Lawe St. Will readvertise later. Harrington, Howard & Ash, Orear Leslie Bldg., Kansas City, Mo., engrs. Noted Feb. 22.

Ia., Des Moines — Widening 6th Ave. Bridge over Des Moines River, etc., to Alexander & Higbie, 2733 6th Ave., $27,492. Noted Feb. 15.

Minn., St. Paul—See "Streets and Roads."

Kan., Ft. Scott—Bourbon Co. takes bids about April 1, 2 rein.-con. bridges, through span girder type, over Walnut and Turkey Creeks, on Atlantic-Pacific Highway. B. Boyle, co. engr.

Kan., Independence — See "Streets and Roads."

Kan., Wellington—Sumner Co. had plans prepared, takes bids in March, bridge across Chekaskia River, Federal Aid Project 35, six 50 ft. deck girder spans with alternate bid on three 100 ft. spans. Marsh Eng. Co., 205 Masonic Bldg., Des Moines, Ia., engrs.

N. D., Fargo—Great Northern Ry. Co., 174 East 4th St., St. Paul, Minn., plans timber bridge with two 20 ft. roadways and 2 sidewalks, at 10th St. crossing, here. $110,000. A. H. Hogeland, ch. engr.

Missouri—State Hy. Dept., Jefferson City, five 80 ft. rein.-con. arch span bridge, 20 ft. roadway, also grading 1.278 mi. road near Waynesville, State Project Route 14, Pulaski Co., to Koss Constr. Co., 2818 5th St., Des Moines, Ia., $62,476. Noted Feb. 22.

Wash., Chehalis—Lewis Co. having plans prepared 200 ft. steel bridge over Chehalis River, at Claquato. $26,000. R. Greene, Chehalis, engr.

Oregon—State Hy. Comn., Salem, filed report for Interstate bridge across Columbia River, recommending bascule bridge at Cathlamet Point, near Cathlamet, $2,032,690, or same type near Ranier, $1,639,352. Latter site is recommended most favorable.

Ore., Astoria—State Hy. Comn., Salem, had plans prepared for bascule lift with 100 ft. span, total 600 ft., over Lewis and Clark River, here. $200,000.

Ont., Ft. William — See "Streets and Roads."

Ont., London—See "Streets and Roads."

Ont., Ottawa—See "Streets & Roads."

Ont., Toronto—Plans to expend $44,410 on maintenance of bridges, $46,100 on level crossings. Work includes paving, planking, wood block floors, etc. R. C. Harris, city engr.

BIDS DESIRED

N. Y., Chatham—March 9, by Town Bd. for Kline Kill Bridge on Chatham-Valatie Highway. To exceed $25,000. W. H. Smith, town supt.

Pa., Media—March 13, at office G. T. Wadas, controller Delaware Co., for Plush Mill Bridge 107, 2 span rein.-con.; adv. this issue.

Pa., Wilkes-Barre—March 27, at office F. H. Gates, city clk., South St. Bridge, 1,735 ft. long. J. E. Greiner & Co., Union Arcade Bldg., Pittsburgh, consult. engrs.; adv. this issue. Noted Dec. 14.

Virginia—See "Streets and Roads."

Kentucky—March 14, by State Hy. Comn., Frankfort, constructing bridge over Triplett Creek, Sta. 249 plus 90, on Midland Trail, Morehead to Carter Co. line, Federal Aid Project 67, Rowan Co., one 100 ft. steel pony truss, 20 ft. roadway, superstructure involves 133,800 lb. structural steel, 3,352 lb. c.i., 66 cu.yd. concrete, 7,550 lb. reinforcing, 208 sq.yd. bituminous surfacing, substructure involves 425 cu.yd. cement rubble masonry; bridge over Livingston Creek between Caldwell and Crittenden Co., Sta. 380 plus 18, on Marion-Princeton Rd., State Project 10. Caldwell Co., two 30 ft. concrete spans with concrete abutments and center pier, 259 cu.yd. concrete, 19,724 lb. reinforcing, 190 cu.yd. excav. J. S. Boggs, state highway engr.

Ohio—See "Streets and Roads."

O., Akron—March 12, by W. F. Peters, dir. Pub. Serv., concrete trestle and steel encased concrete bridge, on West Market St., 107,000 lb. structural steel, 76,000 lb. reinforcing, 880 cu.yd. 1:2:4 concrete, 250 cu.yd. earth approach and fill. $35,000. E. A. Kemmler, Delaware Bldg., engr.

Ind., Indianapolis—March 9, by W. J. Hiner, purch. agt., Cleveland, Cincinnati, Chicago & St. Louis R.R., Room 101, 511 West 3rd St., Cincinnati, O., 90 ft. steel superstructure, 200 ft. wide, East St., here. $60,000. J. B. Hunley, ch. engr.

Bridges (Continued)

Ill., Normal — March 9, by Bd. Local Impvts., constructing 3 portland cement reinforced steel concrete bridges. E. A. Tobias, clk.; adv. this issue.

Ia., Marion—March 7, by Auditor Linn Co., 33 box culverts and extensions, 1 slab bridge, etc. R. W. Gearhart, Marion, engr.

Ia., Washington—March 14, by Auditor Washington Co., for Bridge Project 153, incl. 29 culverts and extensions, 14 culverts and 2 deck girder bridges. Exceeds $25,000. W. P. Rawn, Washington, engr.

Kan., Kansas City—March 12, by Clerk Wyandotte Co., reconstructing 12th St. bridge, steel and rein.-con. $385,000. O. K. Williamson, co. engr.

N. D., Grand Forks—March 15, by H. Anderson, aud. Grand Forks Co., wooden, steel and concrete bridges to be built during 1923. J. Ingram, Grand Forks, engr.

Ont., Port Elgin—March 6, by F. W. Elliott, engr., 1 span steel bridge 110 ft. long, 16 ft. roadway, 2 concrete abutments with retaining walls, twin cement rein.-con. arches each 60 ft., $25,000.

BIDS RECEIVED

S. C., Kingstree — See "Streets and Roads."

CONTRACTS AWARDED

North Carolina—See "Streets and Roads."

North Carolina—State Hy. Dept., Raleigh, rein.-con. bridges and culverts on State Project 991, Transylvania Co., to Gibson Constr. Co., Holston Bank Bldg., Knoxville, Tenn., $50,967; on State Project 815, Burke Co., to J. L. Von Glahn, Spartanburg, S. C., $39,457; on State Project 363, Onslow Co., to Pittsburgh-Des Moines Steel Co., Richmond, Va., (street address not available) $89,006; on State Project 671, Rowan Co., State Project 107, Bertie Co. and State Project 147, Bertie and Hertford Co., to Atlantic Bridge Co., Roanoke, Va., $34,706, $50,128 and $37,559 respectively. Noted Feb. 15.

Ky., Pikeville — Pike Co., constructing 300 ft. concrete bridge over Tug Fork of Big Sandy River, to Roehl & Steel, Knoxville, Tenn. (street address not available), $28,700. Noted Jan. 25.

Ohio—See "Streets and Roads."

Ia., Nevada—Story Co., 52 box culverts and extensions 2 I-beams and 1 pair abutments, 1,363.1 cu.yd. rein.-con., 2,672 lin.ft. wood piling, 27,860 lb. steel, to B. J. Cole, Ames, $28,810.

Ia., Rockwell City—Auditor Calhoun Co., to Vinton Eng. and Constr. Co., Vinton, 4 pony trusses and 1 I-beam, $27,196; Powers & Devereaux, Ft. Dodge, 3 I-beams, 1 slab and 1 pair abutments, $17,185; C. A. Schlachter, Manson, 2 box culverts, $1,647. Noted Feb. 8.

Missouri — State Hy. Dept., Jefferson City, one 40 ft. deck girder, one 50 ft. steel truss and one 20 ft. rein.-con. slab spans, 20 ft. roadways, 6 rein.-con. abutments, etc., on State Project Route 14, Sect. 7, Lawrence Co., to Carterville Constr. Co., Carterville, $19,444; one 80 ft. steel truss and four 20 ft. rein.-con. slab spans, 2 rein.-con. piers, 4 rein.-con. bents, over Palmer Creek, State Project Route 10, Sect. 24, Chariton Co., to C. Parker, Keytesville, $15,674; fourteen 25 ft. I-beam, one 120 ft. and two 76 ft. steel truss spans, 14 creosoted wood pile and 1 rein.-con. bents, 2 rein.-con. piers, over Castor River Diversion Channel, State Project Route 51, Sect. 24, Bollinger Co., and one 100 ft. steel truss span, 2 rein.-con. bents, 20 ft. roadway, over Salt Fork, on State Project Route 20, Sect. 22, Saline Co., to Pioneer Constr. Co., 101 New York Life Bldg., Kansas City, $57,268 and $13,906 respectively. Noted Feb. 22.

B. C., Waldo — Provincial Government, Victoria, two timber bridges over Kootenay River, near here, one 385 ft. long with 165 ft. timber Howe truss on concrete abutments and 220 ft. of pile approaches, and other 515 ft. long with 165 ft. Howe truss, two 65 ft. King trusses, 220 ft. of pile approaches, to W. Greenlees, 592 Seymour St., Vancouver, $58,000.

Dams

PROPOSED WORK

Ia., Rochester—See "Industrial Work."

Mo., Hollister—Empire Dist. Electric Co., Forsythe, had preliminary plans prepared 1,500 ft. power dam, 175 ft. high, on White River about 3½ mi. northwest of here, to impound waters of lakes, 500 mi. of shore line. $15,000,000. Owner plans to build large power plant at later date. G. A. Montgomery, mgr. Engineer not announced.

Wash., Longview—W. Vandercook, engr., Longview, preparing plans and takes bids about March 22, 2 rein.-con. dams, one 90 ft. high, 500 ft. long, other 80 ft. high, 400 ft. long, also pipe line to supply water for industrial and domestic purposes, for Long Bell Lumber Co. $400,000-$650,000. Noted Sept. 21 under "Industrial Works," K[illegible]co.

BIDS DESIRED

Wis., Brokaw—L. A. De Guere, engr., Wisconsin Rapids, taking bids and opens same about March 15, 500 ft. rein.-con. dam, 16 ft. high, steel tainter gates, hoist for Wausau Paper Mills Co. $25,000. Noted Jan. 25.

Railways

PROPOSED WORK

North Carolina — Cape Fear Railways, Inc., Fayetteville, plans extending line south 5 mi. from Fayetteville to Hope Mills and west 10 mi. to Manchester. C. F. Harris, genl. mgr.

Kansas—Atchison, Topeka & Santa Fe R.R., Railway Exch., Chicago, soon takes bids 33 mi. new track from Emporia to Plymouth, have now double track but will build addition making 3 tracks. C. W. Felt, ch. engr.

Kansas—Chicago, Rock Island & Pacific Ry., La Salle St., Chicago, had plans prepared and soon lets contract rebuilding road bed and laying 80-85 mi. new steel rails, 150,000 cu.yd. solid rock excav. C. A. Morse, ch. engr.

Montana—Ernster & Barker, Columbus, directing managers of Columbus Copper Range & Southern, take bids this summer, 81 mi. standard gauge electric railroad from Columbus to New World Mining Dist. Engineer not announced.

California—Atchison, Topeka & Santa Fe R.R., 6th and Main Sts., Los Angeles, having plans prepared spur switching track to connect Atchison, Topeka & Santa Fe warehouses with municipal docks, 1st St. from Jackson to Washington Sts., Oakland, $50,000. R. B. Ball, ch. engr.

Excavation, Drainage, Irrigation

PROPOSED WORK

La., New Orleans—**Metairie Parks Inc.**, retained J. F. Coleman, consult. engr., 822 Perdido St., to plan drainage system, lay out roads and plant grounds of new subdivision, incl. 85 acres in West Park.

Calif., Fresno—Stinson Irrigation Dist. plans election March 9, to vote on $360,000 bonds constructing additional canals, wells, reservoirs and installing pumping plants. Quinton, Code & Hill, Hollingsworth Bldg., Los Angeles, engrs.

BIDS DESIRED

Miss., Clarksdale—See "Miscellaneous."

Tenn., Selmer — March 19, by Drainage Comn., McNairy Co., clearing right of way and excavating 7 mi. for Mossy Creek Drainage Canal, D. D. 17, 51,200 cu.yd. earthwork. Abernathy & Abernathy, Selmer, attorneys.

Ia., Newton—March 21 by Auditor Jasper Co., constructing drainage ditch, Impvt. 11, Sect. 1, main ditch, 32,400 lin.ft., 324,340 cu.yd. excav., Sect. 2, main ditch, 16,100 lin.ft., 239,340 cu.yd. excav., Sect. 3, Indian Creek cutoff, 3,258 lin.ft., 25,000 cu.yd. excav. $61,000. J. R. Sterling, 1521 31st St., Des Moines, engr.

Tex., Houston—Anderson Clayton & Co., Mason Bldg., taking bids dredging channel, 600 ft. wharves, concrete warehouses and cotton compress. $1,000,000. W. L. Clayton, mgr.

Colo., Monte Vista—March 10, by Bowen D. D., 18 mi. covered drains. O. A. Cramer, secy.; adv. this issue.

Calif., Corcoran—March 13, by Trustees Corcoran Irrigation Dist., excavating canal 3,850 ft. long, 17,700 cu.yd. excav. D. I. Drown, secy.

Colo., Holly—March 6, by M. H. Geary, secy. Holly D.D. at office of said district, Room 3, McMurtry Land Co. constructing drainage system incl. (a) open drainage canal and Horse Creek syphon, (b) closed tile lines, (c) bridges, flumes and other structures. Weiland Eng. Co., 721 Thatcher Bldg., Pueblo, engrs.

BIDS RECEIVED

O., Cleveland — Opened bids Feb. 15, dredging Cuyahoga River, 140,000 cu.yd. excav., from Great Lake Dredge & Dock Co., Williamson Bldg., $41,852 and $49,552. Noted Feb. 8.

CONTRACTS AWARDED

Md., Baltimore — Dredging and making fill at McComas St. Bulkhead, 1,300,000 cu.yd., to Sanford & Brooks, Commerce and Water Sts. and Arundel Corp., Fidelity Bldg., $304,000. Noted Feb. 15.

Minn., Mankato—Blue Earth Co. Judicial Ditch 36, 155,930 cu.yd. excav., to Kremer & Hog, 1727 LaSalle Ave., Minneapolis, $42,000, 141,855 lin.ft. 6-34 in. tile, to Minnesota Pipe and Tile Co., Mankato, $19,880; Judicial Ditch 40, 31,145 lin.ft. 8-27 in. tile, to A. Sanderson, Blue Earth, $11,300, backfilling, to S. E. S. Huso, Lake Mills, Ia., $8,955; Judicial Ditch 43, 28,850 lin.ft. 8-32 in. tile, to Minnesota Pipe & Tile Co., Mankato, $11,996, labor to D. D. Coleman, Forest City, Ia., $5,400; Judicial Ditch 45, 47,100 lin.ft. 8-32 in. tile, to Minnesota Pipe & Tile Co., Mankato, $13,784, labor to D.D. Coleman, Forest City, Ia., $9,706. Noted Jan. 25.

Calif., Los Angeles—See "Sewers."

Calif., Terra Bella—Terra Bella Irrigation Dist., furnishing well casing, 14 gage, 300 lin.ft. of each of following sizes, 10, 12, 14 and 16 in., to Western Pipe and Steel Co., 444 Market St., San Francisco, $530. Noted Feb. 22.

Streets and Roads

PROPOSED WORK

N. Y., East Aurora—Defeated $30,000 bonds for paving and widening Main St. F. H. Ball, village pres. Noted Feb. 15.

N. Y., Geneva—Plans 18,000 sq.yd. pavement probably brick. To exceed $30,000. H. Seybolt, supt. Pub. Wks. Noted June 15.

N. Y., Rochester—New York State Railways, 267 State St., plans paving between tracks on North Goodman St., asphalt, $29,500.

N. Y., Troy—Plans Paving 2nd St., Troy and 6th Aves. in North Troy. $30,000-$35,000. A. E. Roche, city engr.

N. Y., Troy—Plans paving Eagle St. $12,716, Burdett Ave. $9,566. Massachusetts Ave. $10,665, 13th St. $16,992. A. E. Roche, city engr.

N. Y., Troy—Bd. Pub. Wks., plans paving 7th Ave. $56,359, 6th Ave. $16,725, Jacob St. $3,392. A. E. Roche, city engr.

N. J., Trenton—Plans widening 1 block West State St. from Chancery Lane to Willow St., 41 ft. $50,000. A. Swan, City Hall, engr.

Pa., Warren—Plans to pave West 4th and Lexington Aves., 3 in. paving bricks. $25,000.

Md., Baltimore—City and E. J. Gallagher Realty Co., Munsey Bldg., having plans prepared sheet asphalt paving Quantico St., Santa Fe and Oswego Aves. between Reistertown Rd. and Towanda Ave. $75,000. R. K. Compton, 214 East Lexington St., chn. Paving Comn.

N. C., Burlington—City plans to pave, curb and gutter various streets and sidewalks, also improve waterworks and sewerage systems. $60,000.

N. C., Kinston—Lenoir Co. plans grading, paving or surfacing various roads. Cost several hundred thousand. E. V. Webb, chn. Co. Highway Comn.

N. C., Washington—Beaufort Co. plans grading and surfacing 5 mi. road out of Washington and 5 mi. road in vicinity of Bath. F. C. Kugler, chn. Co. Highway Comn.

Fla., Apalachicola—Franklin Co. election March 15, to vote on $50,000 bonds constructing road from Blockers Ferry via Lanark, and Carrabelle to East Bay, between Ranges 5 and 6. W. P. Dodd, clk.

Fla., St. Petersburg—City Comn. received no bids Feb. 5, 45,000 sq.yd. concrete sidewalks. Will readvertise after resurvey. E. C. Garvin, dir. pub. wks. Noted Feb. 1.

Alabama—State Hy. Dept., Montgomery, had plans prepared grading and surfacing with sand clay and clay gravel 32.4 mi. Eufaula-Dothan Rd., Houston Co.; grading, surfacing with sand clay and one 80 ft. steel span bridge, on 26.06 mi. Florala-Audalusia Rd., Covington Co. W. S. Keller, state highway engr.

Ky., Henderson — Plans paving various streets, probably asphalt on concrete. $125,000. J. A. Cunningham, comr. pub. wks.

O., Cincinnati—Hamilton Co. plans grading and paving 14,780 ft. Ridge Rd., 16 ft., 26,300 sq.yd. bituminous macadam, $40,388; laying sewers and paving 6,681 ft. Liston Ave., 24 ft., 6,400 lin.ft. granite curb, 22,000 sq.ft. cement sidewalk, 18,180 sq.yd. concrete base, 17,550 sq.yd. bitoslag or bitulithic, 1,250 lin.ft. 30 in. brick and 4,460 lin.ft. vitr. sewer, $181,827. E. A. Gast, Court House, co. surv.

O., Cincinnati—Hamilton Co. plans grading, bridging and paving 8,126 ft. Sharon Ave., 20 ft., 10,200 cu.yd. earth excav., 18,500 sq.yd. concrete, 1,050 cu.yd. 1:2:4 concrete, 30,000 lb. reinforcing, 260 lin.ft. corrugated pipe. $84,414. E. A. Gast, Court House, co. surv.

O., Columbus—Preparing plans grading, curbing, laying necessary water services and sewer connections and paving 577 ft. Barth Alley from alley west of Bruck St.

Streets and Roads (Continued)

to Bruck St., 21 ft., concrete $6,033, brick $8,208, asphalt $7,126; 636 ft. Concord Alley from Mohawk to Yeager Sts., 20 ft., brick $8,049, asphalt $6,974, concrete $5,844; 2,044 ft. 3rd St. from Southwood Ave. to alley north of Innis Ave., 50 ft., brick $28,601, asphalt $23,841; 1,916 ft. Zettler Alley from Ilich and Donaldson Sts., 19.5 ft., brick $10,268, concrete $8,171; 360 ft. Rush Alley from Belle to Starling Sts., 18 ft. brick $4,263, concrete $3,053; 515 ft. Stelzer St. from Sycamore to Frankfort Sts., 20 ft., brick $7,728, asphalt $6,764. R. H. Simpson, city engr.

O., Columbus — Franklin Co. making plans grading, bridging and paving 1.46 mi. Borror Rd., Jackson Twp., 18 ft., waterbound macadam, $31,446; 2.96 mi. Hard Rd., Perry and Sharon Twps., 16 ft., waterbound macadam, $61,344. C. C. Lattimer, co. surv.

O., Warren—Planes paving East Summit St. and South Homewood Ave. $25,000. Engineer not announced.

Ind., Angola—Steuben Co. plans grading and graveling 19,780 ft. Osfall Rd., 16 ft. $30,422. F. Hubbell, Angola, engr.

Ind., Austin—Scott Co. plans grading and graveling 16,300 ft. M. L. Kistler Rd., 16 ft. $26,061. A Maggard, Austin, engr.

Ind., Brazil—Clay Co. plans paving 5,118 ft. National Ave. Rd., 18 ft., 10,237 sq.yd. vitr. brick on concrete. $25,726. F. E. James, Brazil, engr.

Ind., Evansville—Vanderburgh Co. plans surfacing 3.8 mi. Mt. Vernon Rd., 16 ft., crushed stone, $39,000; 21,787 ft. Henderson Rd., 20 ft., 48,415 sq.yd. one course 7 in. concrete, with 10 ft. stone on each side, $209,628. R. W. Meissinger, Evansville, engr.

Ind., Hammond—Lake Co. plans grading and graveling 4 mi. Beaubien Rd. and 3 mi. Kaminski Rd., both 16 ft., $32,842 and $26,425 respectively. R. Seely, Hammond, engr.

Ind., Indianapolis—Plans paving 8,500 ft. 29th St. from Capitol Ave. to Riverside Dr., 28,127 sq.yd. asphalt on concrete, $72,000. J. Elliott, Indianapolis, engr.

Ind., Laporte—Laporte Co. plans grading and graveling 17,147 ft. H. F. Carpenter Rd., 17 ft., $26,197, 3 mi. Boehlke Rd., 16 ft., $25,131; 3.1 mi. Kalwitx Rd., 16 ft., $25,743. P. Summy, Laporte, engr.

Ind., Petersburg—Pike Co. plans grading and graveling 11 mi. Petersburg and Jasper Rd., 16 ft. $120,000. R. Morton, Petersburg, engr.

Ind., Princeton—Gibson Co. plans grading and graveling 12,834 ft. Knowles Rd., 20 ft., $25,367, 2.5 mi. Epperson Rd., 16 ft., $25,275; crushed stone surfacing 16,820 ft. E. E. Whiting Rd., 16 ft., $25,350. H. C. Morrison, Princeton, engr.

Ind., Rising Sun—Ohio Co. plans paving 19,040 ft. Hanna Rd., 16 ft., 33,824 sq.yd. waterbound macadam. $31,139. J. E. Wright, Versailles, engr.

Ind., Rockport—Spencer Co. plans grading and graveling 2.9 mi. Smith Rd., 16 ft. $26,455. Z. X. Bennett, Rockport, engr.

Ind., South Bend—St. Joseph's Co. plans grading and graveling 2.9 mi. A. Bentter Rd., 16 ft. $27,309. P. R. Gillin, South Bend, engr.

Ind., Terre Haute—Vigo Co. rescinded contract graveling 17,500 ft. J. A. Crabb Rd., 16 ft., $27,420; paving 11,220 ft. Fromme Rd., 30 ft., 37,400 sq.yd. concrete on concrete, $112,769; graveling and stone surfacing 8.5 mi. John N. White Rd., 30 ft., $110,983. G. R. Grimes, Terre Haute, engr. Will readvertise. Nated Dec. 28.

Ind., Terre Haute—Vigo Co. plans paving 2,740 ft. Donovan Ave. in West Terre Haute, 10,916 sq.yd. concrete on concrete. $25,230. G. Grimes, Terre Haute, engr.

Ind., Vernon—Jennings Co. plans paving 16,100 ft. Haley Rd., 16 ft., $25,242; grading and graveling 14,080 ft. Wilds Rd., 16 ft., $25,787. C. W. Miles, North Vernon, engr.

Ind., Vincennes—Knox Co. plans grading and graveling 4.74 mi. Like Rd., 16 ft., $38,000; paving 1.59 mi. R. M. Glass Rd., 16 ft., 15,243 sq.yd. concrete on concrete, $36,251. G. A. Haskin, Vincennes, engr.

Ind., Washington—Daviess Co. plans paving 16,765 ft. James A. Colbert Rd., 16 ft., 29,804 sq.yd. concrete on concrete, $68,250; 15,525 ft. Lawrence Lee Rd., 16 ft., 27,600 sq.yd. concrete on concrete, $57,960. W. L. McCormick, Washington, engr.

Ill., Atwood—Plans concrete paving 1.5 mi. Main St., 12-60 ft., $90,000. W. J. Day, Bement, engr.

Ill., Champaign—Plans paving and curbing 6 blocks Stoughton St., 7,600 sq.yd. concrete and 4,910 lin.ft. concrete curbing, 4 blocks Healey St., 2,000 sq.yd. concrete. F. C. Lohman, city engr.

Ill., Charleston — Plans grading, paving and curbing, State St., 12,600 sq.yd. vitr. brick 4,600 lin.ft. concrete curbing; Polk St., 2,800 sq.yd. concrete, and 2,100 lin.ft. concrete curbing. D. D. McLain, city engr.

Ill., Cissna Park—Plans grading, paving and curbing 800 ft. Main St., 50 ft., 3,500 sq.yd. concrete. $30,000. C. Blake, Watseka, engr.

Ill., Danville—Plans paving 5 alleys, 5,800 sq.yd. concrete. H. Edwards, city engr.

Ill., Decatur—Macon Co. plans paving 2 or 3 mi. township roads, 20 ft. $100,000. C. Becker, Court House, engr.

Ill., Gilman—Plans paving 2,700 ft. Crescent St. widening Egyptian Trail, 28 ft., 3,000 sq.yd. concrete. C. Blake, Watseka, engr.

Ill., Kankakee—Making plans paving 10 blocks Poplar Ave., 6,000 sq.yd. concrete, South Indiana Ave., 4,000 sq.yd. concrete. R. Gregg, city engr.

Ill., Maroa — Plans widening 4,500 ft. State Rd. additional 14 ft., also improving 800 ft. Main St., 50 ft., both concrete. Holbrook, Warren & Van Praag, Milliken Bank Bldg., Decatur, engrs.

Ill., Mattoon—Plans paving 12 blocks 14th and 15th Sts., vertical fibre brick; 13 blocks Champaign St., 15,050 sq.yd. vertical fibre brick, $62,000, both 30 ft. J. A. Goetz, city engr.

Ill., Monticello—Plans paving 3½ blocks South Market St., 36 ft., (18 ft. state work, 7 ft. street car tracks and 11 ft. city work) 6,000 sq.yd. concrete. W. J. Day, Bement, engr.

Ill., St. Anne—Plans paving 2.5 mi. Chicago and Sheffield Aves., Station, Grant and Beaver Sts. 24-25 ft., 32,250 sq.yd. concrete. $100,000. R. Gregg, Kankakee, engr.

Ill., Urbana—Plans concrete paving 4,000 sq.yd. University Ave. from Cunningham to Race Sts., 24 ft.; 3,200 sq.yd. Hill St. from Lincoln to Wright Sts., 26 ft., 8,000 sq.yd. West Main St. from Central to Lincoln Sts., 32 ft. A. M. Danely, city engr.

Ill., Watseka — Iroquois Co. plans concrete paving about 25 mi. roads, 10 ft. B. Jordan, Watseka, engr.

Wis., Burlington—Plans concrete paving, curbing and guttering Jefferson St., Main St. from Jefferson to State St., State St. from Main to city limits, 25 ft. $25,000. Engineer not selected.

Wis., Milwaukee—Preparing plans paving various streets and alleys, concrete, asphalt and possibly other types. $3,000,000. G. F. Staal, City Hall, engr.

Wis., Oconomowoc—Making plans paving North Main, Hickory and 2nd Sts., 25 ft., 10,000 sq.yd. vitr. brick, asphaltic concrete or 1 course concrete, 8,000 lin.ft. concrete curb, 8,000 lin.ft. concrete gutter. $25,000. J. A. Stemper, City Hall, engr.

Wis., Port Washington — Ozaukee Co. State Road and Bridge Com., concrete surfacing, etc., Cedarburg-Grafton-Saukville Rd., from Schaefer Thompson Constr. Co., Marshfield, $117,455; F. Doherty Co., 753 47th St., Milwaukee, $120,129; Lampert Constr. Co., 11 Algoma St., Oshkosh, $120,148. Noted Feb. 15.

Wis., Sheboygan—Making plans concrete paving, curbing and guttering South 11th St. from Indiana to Union Aves., South 14th St. from Georgia to Union Aves., Prospect St. from 2nd to 3rd Sts., North 3rd St. from Bluff Ave. to Clifton St., Union Ave. from South 9th to Lake Michigan Sts., Virginia Ave. from 8th to North Water St., 25 ft. $25,000. C. N. Boley, City Hall, engr.

Ia., Colfax—Rejected bids 22,447 sq.yd. grading and paving, also 16,898 lin.ft. curbing. New bids about April 1. A. T. Archer & Co., 609 New England Bldg., Kansas City, Mo., engrs. Noted Feb. 15.

Ia., Council Bluffs—A. F. Smith Co., 28 Pearl St., soon receives bids grading new sub-division, 75,000-90,000 cu.yd. Rohrbough Eng. Co., 929 City Natl. Bank Bldg., Omaha, Neb., engrs.

Ia., Lamoni—Making plans 18,000 yd. paving, asphaltic concrete, bitulithic, brick or rein.-con. Shockey Eng. Co., 800 Graphic Arts Bldg., Kansas City, Mo., engrs.

Ia., Marshalltown—Auditor Marshall Co. takes bids this month grading 13 mi. Project 240, Sects. A and B, 175,000 cu.yd. excav. $50,000. D. C. Elder, Marshalltown, engr.

Minn., St. Paul — Ramsey Co. levied $449,250 for road and bridge construction in 1923. $50,000 State aid will be added. P. N. Coates, co. surv.

Kan., Independence—Had plans prepared 8,000 yd. brick pavement on 5 in. concrete, on various streets. H. W. Crawford, Independence, engr.

Kan., Independence — Montgomery Co. making plans paving 10 mi. Federal Aid Project 121, Sects. B and C, bituminous macadam, also one 50 ft. span highway bridge. H. K. Hibbard, co. engr.

S. D., Yankton—Plans paving 11 blocks 13th St. between 3rd Ave. W. and Walts Ave. $38,000. J. W. Summers, city aud.

Wyo., Casper — Plans paving 14th and Willow Sts. $30,000. F. S. Knittle, city engr.

Mont., Butte—Making plans paving Harrison Ave., 47,000 sq.yd. $225,000. J. Wiegenstein, city engr.

Mo., Nevada—Plans election to vote on $100,000 bonds for paving. J. W. Clark, Nevada, engr.

Mo., Princeton—Preparing plans paving streets, concrete. $75,000. Shockley Eng. Co., 800 Graphic Arts Bldg., Kansas City engrs.

Mo., St. Louis — Soon takes bids (a) opening and widening (b) paving, etc., 21,500 ft. Chippewa St. from Grand St. to Kingshighway, 80 ft., (a) $120,000 (b) $279,000; 532 ft. Dodier St. between Spring and Prairie Aves., 36 ft., (a) $12,000 (b) $22,400. W. W. Horner, city engr.

Tex., Dallas—City Comn. takes bids early in March paving 1 mi. Pacific Ave. from Lamar St. to Houston & Texas Central R.R. tracks, 50 ft., 7 in. concrete base with Uvalde rock asphalt bitulithic, brick, wood block, asphaltic concrete or sheet asphalt. $75,000-$100,000. G. D. Fairtrace, city engr.

Tex., Ft. Worth — Tarrant Co. having plans prepared and takes bids in about 30 or 60 days grading, gravel surfacing and concrete structures on 8 mi. Forest Hill and 8 mi. Dido Rds., 14 ft., $65,000 each; gravel surfacing and concrete structures on 8 mi. State Highway 10, 18 ft. $85,000. R. V. Glenn, Ft. Worth, consult. engr.

Tex., Ft. Worth — Tarrant Co. rejected bids paving 3.6 mi. State Highway 40, Keller-Denton Rd., 18 ft., 38,446 sq.yd. concrete. New bids to be called for soon on different type of surfacing. $165,000, incl. 10% for engineering and contingencies. R. V. Glenn, Courthouse, Dallas, engr.

Tex., Nacogdoches—Making plans paving, curbing and guttering main business streets. $500,000. G. L. Forsgard, Nacogdoches, engr.

Tex., Port Arthur—Election about April 1 to vote on $60,000 bond issue paving and storm sewers in Shreveport Ave. Nagle Witt & Rollins, Port Arthur, engrs.

Tex., Richmond—Ft. Bend Co. rejected bids surfacing with bituminous topping 10.4 mi. State Highway 19, 16 ft., 82,708 gal. asphaltic oil, 2,300 cu.yd. trap rock, 1,530 cu.yd. lime stone cover material. $40,000. Will readvertise later. C. H. Kendall, Sugarland, co. engr. Noted Nov. 16.

Okla., Drumright—Plans election to vote on $150,000 bonds grading and paving 30 blocks, 35,000 sq.yd. citr. brick. Peckham & Sutton, 227 West Grand St., Oklahoma City, engrs.

Okla., Durant—Plans concrete paving 30 blocks, Elm, 4th and 7th Sts., 30 ft. $200,000. W. A. Frost, mayor. Engineer not selected.

Wash., Seattle — Bd. Public Wks. approved plans grading north end Beacon Hill, $900,000. Entire north end of hill is to be shaped to prevent land slides. Work will be divided into 4 sections, grading of hill, construction of permanent approaches to viaduct on 12th Ave. S. (to cost $189,000), and sluicing hill dirt to 9th Ave. S., etc. J. D. Blackwell, city engr.

Ore., Portland—Having plans prepared and takes bids about April 15, improving 21 streets (½ of entire 1923 improvement program) incl. East 44th, Center, East Washington, East 77th, East Alder, East 63rd, Fenwick, East 11th, 15th, East Clay, East 66th and East 36th Sts., also East 76th from Ash St. easterly, from Alberta St. to Killingsworth Ave., and from Hawthorne Ave. to East Main St., East 70th St. from East Yamhill to East Morrison and from center line Siskiyou St., Fowler Ave., Alley in Block 22, Ladds Addition, and as district improvement, East 17th and East 18th Sts., from Shaver to Skidmore Sts. and Shaver St. from East 15th to East 18th Sts. $250,000. O. Laurgaard, city engr.

Calif., Los Angeles — Los Angeles Co. takes bids about March 15, improving Ocean Ave. between east city limits of Long Beach and Ave. 19, 10,235 cu.yd. excav., 17,953 lin.ft. concrete curb, 27,774 sq.ft. concrete pavement, etc.

Calif., Napa—Had plans prepared improving 3rd St. between Jefferson and School Sts., 1,679 cu.yd. excav., 76,231 sq.ft. 6 in. concrete pavement, etc. $28,000. H. A. Harrold, city engr.

Calif., Oakland—Had plans prepared improving Plymouth Ave. between 90th Ave. and Jones St., 70,664 sq.ft. grading, 2,267 lin.ft. concrete curb, 4,878 sq.ft. concrete gutter, 33,466 sq.ft. oil macadam pavement, 12,197 sq.ft. cement walks, etc. W. W. Harmon, city engr.

Calif., San Diego—Had plans prepared improving 18th St. between Bway. and Imperial Ave., 169,759 sq.ft. 1½ in. asphaltic concrete on 2½ in. bituminous, etc. F. A. Rhodes, city engr.

Calif., San Francisco — City and San Francisco Co. plans grading and paving Market St. extension between Mono and Ord Sts. $275,000, of which $175,000 is

Streets and Roads (Continued)

for rights of way. M. M. O'Shaughnessy, city engr.

Que., Montreal—Having plans prepared extending and widening Sherbrooke St. from Delormier St. to eastern city limits, 25,500 ft. long, asphalt, 100 ft. wide, but only 20 ft. on each side to be paved, 60 ft. in centre to be used in near future for tramways. $125,000. H. A. Terreault, dir. pub. wks.

Ont., Chatham—Having plans prepared asphalt pavements on Park, Dover and various streets, also resurfacing pavements on several streets. $60,000. C. H. R. Fuller, city engr.

Ont., Ft. William—Northern Development Branch, Parliament Bldgs., Toronto, plans improving 20 mi. International Highway in this vicinity, gravel and macadam, with bridges. $135,000. C. H. Fullerton, ch. engr.

Ont., Kitchener—Having plans prepared asphalt and concrete pavements. $50,000. Prices wanted on materials. A. Shupe, city engr.

Ont., London—Middlesex Co. voted $97,746 for new roads, $143,377 for maintenance and repairs, $22,720 for suburban roads, macadam and gravel. Work also includes several concrete and steel bridges. C. Talbot, County Bldg., engr.

Ont., Ottawa—Carleton Co. plans grading, macadam pavements and concrete bridges. $330,000. C. Macnab, County Bldg., clk.

Ont., Ottawa — Ottawa Suburban Rds. Comn., Thistle Bldg., plans asphalt pavements, road surfacing, grade reductions, etc. $240,000 allotted by city, Carleton Co. and Provincial Government.

Ont., Owen Sound—Suburban Rds. Comn., plans grading, gravel and macadam road construction leading out of city. $150,000. C. H. Thompson, secy.

Ont., Penetanguishene—Plans ½ mi. rein.-con. pavement, 30-45 ft. wide. $30,000. W. H. Hewson, town clk.

Ont., St. Thomas—Elgin Co. plans following expenditures: maintenance of roads $38,000, new machinery $5,000, bridges and culverts $10,000, new road construction, macadam and gravel, $30,000. J. Bell, co. engr.

Ont., Toronto—See "Bridges."

BIDS DESIRED

Conn., Wallingford—March 13, by J. P. Bridgett, warden and Court of Burgesses at office of Borough Clerk, 1,710 sq.yd. concrete paving, 4,040 sq.yd. bituminous macadam paving, etc.; sewers in Simpson and Pomeroy Aves., Ward, Wall and South Orchard Sts.; adv. this issue.

N. Y., Wanakah (Hamburg P. O.)—March 5, by Wanakah Land Corp., 577 Ellicott Sq., Buffalo, removing ½ mi. brick pavement, 16 ft. wide, and building ½ mi. rein.-con. pavement, 18 ft. G. C. Diehl, 577 Ellicott Sq., Buffalo, engr.

Maryland—March 6, by State Roads Comn., 601 Garrett Bldg., furnishing and applying 576,127 gal. oil. J. N. Mackall, chn.; adv. this issue.

Md., Baltimore — March 7, by Paving Comn., for 22,805 cu.yd. sheet asphalt, Contr. 231-OANA. $35,000. R. K. Compton, 214 East Lexington St., chn.

Virginia—March 14, by State Hy. Dept., Richmond, (1) 1.5 mi. road in Fluvanna Co., Project S-166, (2a) 10.4 mi. road in Fluvanna and Goochland Counties, Project S-209, (2b) bridge over Bird Creek, Project S-209, (3a) 9.7 mi. road on Isle of Wight and Nansemond Counties, Project F-160 B and C, (3b) bridge over Kingsale Swamp, (4) 5.5 mi. road in Buchanan Co., Project S-265, (5) 4.8 mi. road Wise Co., Project S-287, (6a) 6.6 mi. road Fluvanna Co., Project S-214, (6b) bridge over Carys Branch Sta., Project S-214, (7) 4.3 mi. road James City Co., Project F-157, (8) 5.08 mi. road Tazewell and Russel Counties, Project F-271, (9) bridge over Grassy Creek, Mecklenburg Co., Project F-178. H. G. Shirley, Richmond, chn. State Highway Comr.; adv. this issue.

W. Va., Ripley—March 6, by Jackson Co., grading 2.25 mi. Ravenswood Rd., Project 3132 B, 18 ft. $45,000. E. Staats, clk.

W Va., Wayne—March 9, by Wayne Co., grading 7 mi. Dunlow-Fleming Rd., Project 3202, 3,000 lin.ft. 18 in. vitr. clay pipe, 162,000 cu.yd. unclassified, 450 cu.yd. wet, 2,400 cu.yd. dry and 1,000 cu.yd. borrow excav., 300 cu.yd. Class A and 1,160 cu.yd. Class B concrete, 32,000 lb. reinforcing, 2,950 sta.yd. overhaul, 33,500 lin.ft. clearing, 360 cu.yd. cement rubble masonry, etc. $135,000. H. J. Spelman, Huntington, engr.

N. C., Charlotte—March 6, by T. Griffith, chn. Mecklenburg Co Comn., improving Conelius River Rd., 45,500 sq.yd. paving, 4,000 cu.yd. grading; County Home Rd., 48,050 sq.yd. paving 4,500 cu.yd. grading; Derita Rd., 4,100 sq.yd. paving, topping only. L. Ross, Charlotte, engr.

S. C., Chester—March 7, by Chester Co. grading and topsoiling 8.6 mi. State Route 9, between survey stations 21-00 and 492-22, 34,664 cu.yd. excav. and 27,137 cu.yd. topsoil. County Bd. Directors, Chester, engrs.

Fla., Bradentown—March 12, by Comrs. Manatee Co., sand clay surfacing 20 mi. Sandy-Edgeville-Duette Rd., $50,000; macadam paving 16 mi. road from Myakka to De Soto Co. line, $100,000. McElroy Eng. Co., Giddens Bldg., Tampa, engrs.

Louisiana—March 13, by State Hy. Comn., Baton, Rouge, constructing 5.49 mi. Federal Aid Project 104, Sect. A., between Colfax and Natchitoches, also furnishing 6,692 cu. yd. washed gravel and 6,698 cu.yd. sand clay. A. Fourmy, state hy. engr.

Kentucky—March 14, by State Hy. Dept., Frankfort, surfacing 3.9 mi. Lawrenceburg-Versailles Rd., State Project 20, Sect. C, Anderson Co., 8,150 ton crushed stone, 2,002 ton screenings, 110 lin.ft. 18 in. and 44 lin. ft. 24 in. corrugated metal pipe, 31 cu.yd. concrete, etc. J. S. Boggs, state highway engr.

Ohio—March 13, by Dept. Highways and Pub. Wks., Columbus, grading and paving roads in following counties:

Fairfield Co., Sect. O-1 Cincinnati-Zanesville Rd., 2.484 mi., brick $118,259; state to furnish brick $90,173; rein.-con. $90,709.

Fairfield Co., Sect. "O-2" Cincinnati-Zanesville Rd., 2.767 mi. brick $128,985; state to furnish brick $104,259; rein.-con. $100,133.

Fairfield Co., Sect. "E-2" Cincinnati-Zanesville Rd., 2.274 mi. brick $85,439; state to furnish brick $66,942; rein.-con., $76,201.

Greene Co., Sect. "J" Columbus-Cincinnati Rd., 2.62 mi., waterbound macadam $54,919.

Huron Co., Sect. "S" Norwalk-Mansfield Rd., 2.504 mi., rein.-con. $69,132.

Mahoning Co., Sect. "A" Salem-Warren Rd., 3.1 mi., bituminous macadam, asphalt or tar $58,823.

Pike Co., Sect. "Piketon" Columbus-Portsmouth Rd., 1.07 mi., brick $47,568.

Richmand Co., Sects. "B-C-D" Mansfield-Norwalk Rd., 8.94 mi., rein.-con. $447,897; bituminous concrete $484,839.

Sandusky Co., Sect. "O-1" Fremont-Castalia Rd., 0.15 mi., waterbound macadam $4,041.

Vinton Co., Sect. "G-3" 0.464 mi., McArthur-Athens Rd., rein.-con., $15,460.

Wood Co., Sect. "B" Perrysburg-Fostoria Rd., 1.549 mi., bituminous macadam, asphalt or tar, $38,781.

Logan Co., Sects. "B and C-2" Bellefontaine-Marysville Rd., 8.832 mi., rein.-con., $271,494.

Mahoning Co., Sect. "Z" Canfield-Poland Rd., 2.531 mi., bituminous macadam, asphalt or tar, $65,927.

Delaware County, Sect. "D" Columbus-Wooster Rd., 1.805 mi., brick, $53,904.

Huron Co., Sects. "K and L" Norwalk-Bellevue Rd., 6.204 mi., concrete curb widening, $76,384.

Huron Co., Sects. "M and N" Norwalk-Bellevue Rd., .476 mi., concrete curb widening, $5,749.

Huron Co., Sect. "P" Norwalk-Oberlin Rd., 4.708 mi., concrete curb widening, $55,994.

Sandusky Co., Sect. "K" Fremont-Perrysburg Rd., two concrete slab top culverts, $3,033. L. C. Herrick, dir. highways.

O., Akron—March 8, by W. F. Peters, dir. Pub. Serv., paving 5th Ave. from Arlington to Elbon Sts., 26 ft., 2,200 lin.ft. stone curb, 5,800 sq.ft. concrete sidewalk, 3,400 cu.yd. earth excav., 3,980 sq.yd. vitr. brick on concrete, 3,790 lin.ft. 6-24 in. sewers, $30,500; Clifton Ave., Lee Dr., Marion Pl. and Bank Alley, 2,650 ft. long, 16 and 26 ft. wide, 7,900 cu.yd. earth excav., 1,400 lin.ft. stone curb, 2,300 lin.ft. brick and concrete gutter, 1,775 sq.yd. vitr. brick, 725 sq.yd. asphalt and 2,500 sq.yd. concrete base, $27,000. E. A. Kemmler, Delaware Bldg., engr. Noted Dec. 7.

O., Cincinnati—March 9, by Hamilton Co., grading and paving 8,980 ft. Van Zandt Rd., 16,000 sq. yd. bituminous macadam, $25,595; 4,230 ft. Oak Rd., 16 ft., 7,525 sq. yd. bituminous macadam, $15,128; 8,530 ft. Baughman Rd., 16 ft., 15,200 sq.yd. bituminous macadam, $23,272; 9,300 ft. Blue Ash Rd., 20 ft., 20,700 sq.yd. bituminous macadam, $30,042. E. A. Gast, Court House, co. surv.

O., Dayton—March 12, by Montgomery Co. paving 1 mi. Brandt St., wood block, brick or Kentucky rock asphalt on concrete. $31,000-$44,000. W. O. Pease, co. surv. Noted Jan. 11.

Ind., Boonville — March 6, by Auditor Warrick Co., grading and graveling 13,000 ft. Susott Rd., 16 ft. $27,500. S. Bohannon, Boonville, engr. Noted Feb. 22.

Ind., Evansville — March 5, by Auditor Vanderburgh Co., rock screening 14,921 ft. Koring Rd., 16 ft., $26,501. R. W. Meissinger, Evansville, engr. Noted Feb. 22.

Ind., Evansville—March 12, by Auditor Vanderburgh Co., grading and graveling 13,685 ft. Covert and Hege Rd., 16 ft. $22,181. R. W. Meissinger, Evansville, engr. Noted Feb. 22.

Ind., Hammond—March 6, by Auditor Lake Co., grading and graveling 8.5 mi. C. O. Holmes Rd., 20 ft. $74,500. R. Seely, Hammond, engr.

Ind., Huntingburg—March 5, by Auditor Dubois Co., crushed stone surfacing 14,360 ft. John Steineker Rd., 16 ft. $25,635. E. Pickardt, Huntingburg, engr. Noted Feb. 22.

Ind., Jasper—March 5, at office F. J. Seng, aud. Dubois Co., improving 13,960 ft. A. H. Manntel et al. Rd. $33,860.

Ind., Logansport—March 6, by Auditor Cass Co., grading and graveling 17,128 ft. Martin Kesling Rd., 16 ft. $27,181. J. Bennett, Logansport, engr. Noted Feb. 22.

Ind., South Bend—March 13, by Dept. Public Wks., paving Harper Court, Leer, Marina, Poland and Carroll Sts., Fassnacht, Golden and Harrison Aves. V. C. Sweeney, clk.; adv. this issue.

Ind., Valparaiso—March 6, by Auditor Porter Co., concrete paving 3.494 mi. Theodore Gloyeske Rd., 16 ft., 32,744 sq. yd. concrete on concrete, $51,591; 2.360 mi. Edward Esserman Rd., 16 ft., $29,244; 1.167 mi. Horace Payne Rd., 18 ft., $32,916; 1.368 mi. Charles O. Carlson Rd., 18 ft. $26,101. F. R McNeice, Valparaiso, engr. Noted Feb. 22.

Ind., Warsaw—March 5, by Auditor Kosciusko Co., grading and graveling 15,460 ft. John W. Mauzy Rd., $26,146; 16,237 ft. Henry Ulmer Rd., $26,684; 14,960 ft. John M. Tuttle Rd., $25,727; 17,132 ft. James H. Stinson Rd., $28,552, all foregoing 16 ft. S. S. Boggs, Warsaw, engr. Noted Feb. 22.

Ill., Chicago—March 12, by Bd. Local Impvts., 207 City Hall, widening Ogden Ave., $800,000, paving Bennett St. from Euclid to Yates Sts., $250,000, various other streets, $1,000,000. C. D. Hill, ch. engr.

Ill., Kankakee—March 5, by Clerk Kankakee Co., concrete paving 5.03 mi. Sect. J. 15-D, State Aid Route 5 and 4.95 mi. Sect. L 15-D, State Aid Route 5, 9 ft. F. M. Enos, co. supt. highways.

Wis., Fond du Lac—March 6, by Fond du Lac Road and Bridge Com., Court House, grading and surfacing 9.89 mi. Eden-Waucousta Rd., Trunk Highway 55, commencing at end of pavement in village of Eden and extending southerly to present pavement 3 mi. south Waucousta, bids will be received in three ways (1) on Sect. A the north end of project comprising 6.76 mi. incl. 24,436 cu.yd. earth excav., 71,400 cu. yd. 18 ft. concrete surfacing, etc., (2) on Sect. B south end of project comprising 3.13 mi., 33,103 sq.yd. 18 concrete surfacing etc., (3) on Sects. A and B combined. J. S. McCullough, co. highway engr.

Wis., Kenosha—March 16, by R. M. Smith, city engr., paving Pleasant, West, Erie, 3rd, South, Lester, and Bond Sts., Marion, Sellick, Alleman, Tanck, Lyman and Florence Aves., Linderman Court, Pleasant Pl., alternate bids on sheet asphalt, vertical fibre brick, 1 course rein.-con. and asphaltic concrete. $430,000. Noted Feb. 1.

Wis., New Richmond—March 15, by J. E. Hughes, city clk., paving 18,000 sq.yd. various streets, concrete. Former bids rejected. J. W. Shaffer & Co., 916 New York Life Bldg., Minneapolis, Minn., engrs. Noted Feb. 1.

Wis., Waukesha—March 7, by Waukesha Co. State Road and Bridge Com., Court House, surfacing, etc., Merton-North Lake Rd., State Trunk Highway 74, Village of Merton and extending north and west 4.2 mi., incl. 16,397 cu.yd. earth excav., 44,488 sq.yd. 18 ft. concrete surfacing, etc.; Waukesha-Prospect Rd., commencing at College Ave. in this city and extending 3.35 mi. along County Trunk Highway H, 21,256 cu.yd. earth excav., 37,720 sq.yd. 16 ft. concrete surfacing, etc. C. J. Hahn, co. highway comr.

Ia., Independence—March 16, by Auditor Buchanan Co., grading, paving and incidental work on 1.906 mi. primary road in Jesup, 5,644 cu.yd. excav., 5,295 ft. 6 in. and 3,040 ft. 8 in. tile, 20,192 sq.yd. concrete pavement, etc. Iowa Hy Comn., Ames, engrs.

Minn., Faribault—March 15, by F. M. Kaisersatt, aud. Rice Co., Job 2301 State Rd. 3, 42,171 cu.yd. earth excav., 2,200

Streets and Roads (Continued)

cu.yd. loose and 50 cu.yd. solid rock excav., 62,797 cu.yd. overhaul, 964 lin.ft. 12-24 in. corrugated metal culverts, 2 wing-wall culverts, 127 cu.yd. concrete, 8,861 lb. steel, 344 lin.ft. piling; Job 2301 State Rd. 6, 62,791 cu.yd. earth excav., 1,840 cu.yd. loose and 100 cu.yd. solid rock excav., 52,648 cu.yd. overhaul, 1,727 lin.ft. 12-24 in. corrugated metal culverts, 4 wing-wall culverts, 480 cu.yd. concrete, 35,158 lb. steel; Job 2303, State Rd. 27, 56,720 cu.yd. earth excav., 1,712 cu.yd. loose and 100 cu.yd. solid rock excav., 46,648 cu.yd. overhaul, 1,378 lin.ft. 12-24 in. corrugated metal culverts, 1 wing-wall culvert, 86 cu.yd. concrete, 5,112 lb. steel; Job 2304, State Rd. 24, 78,938 cu.yd. earth excav., 1,656 cu.yd. loose and 244 cu.yd. solid rock excav., 65,422 cu.yd. overhaul, 1,438 lin.ft. 12-25 in. corrugated metal culverts, 3 wing-wall culverts, 122 cu.yd. concrete, 7,678 lb. steel, $50,000. J. C. McElherne, Faribault, engr.

Minn., Lakefield—March 7, by city, paving 15,000 sq.yd. various streets, concrete, sheet asphalt, asphaltic concrete, bitulithic or brick, concrete curb and gutter, 1,600 lin. ft. 10-18 in. storm sewer. $70,000. W. E. Buell & Co., 205 Davidson Bldg., Sioux City, Ia., engrs.

Minn., Mantorville—March 13, by G. L. Taylor, aud. Dodge Co., Job 2301, State Rd. 4, 26,992 cu.yd. earth excav., 91 cu.yd. loose rock excav., 153,820 cu.yd. overhaul, 480 lin.ft. sectional concrete or corrugated metal culverts, load and haul 4,207 cu.yd. gravel, 700 cu.yd. ½ to 1 mi., 3,507 cu.yd. over 1 mi., 2.547 cu.yd. miles, 975 cu.yd. stripping, one 30 ft. I-beam concrete span, 3 monolithic culverts, $25,000; Job 2302, State Rd. 7, clear 1,188 trees, grub 1,268 trees, 99,642 cu.yd. earth excav., 444,310 cu.yd. overhaul, 1,610 lin.ft. sectional concrete or corrugated metal culverts, one 18 ft. and one 20 ft. concrete slab bridge, 8 monolithic culverts, $40,000. D. P. Poboisk, Mantorville, engr.

Kan., Ft. Scott—March 16, at office K. Culbertson, clk. Bourbon Co., improving 4 mi. Hornaday Rd., 25,000 gal. bituminous surface treatment, 2¾ mi. Coleman Rd., 15,000 gal. bituminous surface, 3¼ mi. High Drive Rd., 20,000 gal. bituminous surface, 6 mi. Rd. No. 34, Sect. A, 28,000 gal. bituminous surface, 3¼ mi. Rd. No. 33, Sect. A, 15,000 gal. bituminous surface, 12, 14 and 16 ft. wide, one and 2 course bituminous surface treatment, together with necessary patching, etc.

Kan., Salina—March 7 at office of C. E. Banker, city clk., grading and paving certain streets, incl., 24,000 cu.yd. excav., 5,000 lin.ft. curb and gutter, 80,000 sq.yd. paving, alternate bids on 3 in. brick on 5 in. concrete, 2 in. asphaltic concrete on 5 in. concrete and 6 in. rein.con., with cement curb and combined cement curb and gutter.

Mo., Maplewood (St. Louis P. O.)—See "Sewers."

Tex., Commerce—March 23, by City Com. paving 30,000 sq.yd. various streets, brick or other high class pavement. $100,000. Burtner & Dockney, Greenville, engrs.

Tex., Eldorado—March 6, by W. F. Ford, judge Schleicher Co., grading, gravel surfacing and bituminous topping 9.86 mi. State Highway 4, 16 ft. $134,000. J. L. Neill, co. engr. Noted Feb. 15.

Washington — March 13, by State Hy. Comn., Olympia, concrete paving 4.4 mi. Pacific Highway from Kalama to Carrols; 6.73 mi. Pacific Highway from Carrols to Kelso. J. Allen, state highway engr.

British Columbia—Minister of Dept. Pub. Wks., Victoria, taking bids and opens same about March 12 paving 7¼ mi. Pacific Highway from Cloverdale to Blaine, Wash., 16 ft. wide, 6 in. concrete, $250,000.

BIDS RECEIVED

N. Y., New York—H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., opened bids Feb. 19, curbing, laying sidewalks and crosswalks on (1) Fieldston Rd., grading, setting curb, laying sidewalks, etc. on (2) Bogart Ave. (3) Buhre Ave. (4) Crosby Ave. (5) Gleason Ave. (6) Hobart Ave. (7) Jarvis Ave. (8) Mahan Ave. (9) Gainsborg Rd., from Spedero & Turriamo, 827 East 217th St., (1) $2,838 (3) $12,960 (4) $17,534 (5) $25,248 (6) $7,745 (7) $5,470 (8) $15,641 (9) $31,359; J. V. Timoney Constr. Co., 220 East 201st St., (1) $3,178; Burnside Contg. Co., 270 Burnside Ave., (1) $3,255 (2) $11,396 (3) $15,323 (6) $8,605 (7) $6,020; Gregorio & Gabriele, 1129 8th Ave., (2) $10,647; L. DiMinna, (2) $16,816 (9) $32,732; M. DelBalso, 660 East 221st St., (3) $13,799 (5) $27,266; I. F. Cavaluzzo, 1538 Walton Ave., (3) $13,678 (4) $17,108 (5) $25,065 (7) $6,422 (8) $17,473; P. J. Donovan, 30 Church St., (4) $16,661 (6) $7,520 (8) $16,034 (9) $30,721. Noted Feb. 15.

N. J., Spring Lake—Mayor and Council opened bids Feb. 19, improving East Lake Dr., engrs. est. $107,452, from J. Burke Constr. Co., 309 Park Ave., Plainfield, 97% of engineers estimate; Union Paving Co., 30th and Locust Sts., Phila., 97.3%; E. Riley Mixner Co., Bridgeton, 98.7%. Noted Feb. 8.

S. C., Kingstree—Williamsburg Co., constructing 12.2 mi. Project 177, from L. Cartledge, Pine Apple, Ala., $43,013, W. B. Boyle Co. and Mallard Lumber Co., Sumter, $45,566, W. D. Caughman, Jr., 1207 Maple St., Columbia, $47,620; 2 rein.-con. bridges on above project, from C. E. Story, Augusta, Ga., $10,853, General Road & Drainage Constr. Co., Liberty Bank Bldg., Columbia, $11,767, Lillard Laurens Co., Charleston, $11,769. Noted Feb. 1.

O., Cincinnati — Hamilton Co. grading and paving (1) 9,800 ft. Newtown Rd., 16 ft., 17,500 sq.yd. bituminous macadam, engrs. est. $37,714 (2) 15,840 ft. Hopewell Rd., 16 ft., 28,160 sq.yd. bituminous macadam, engrs. est. $41,612, from A. C. Pickelheimer, 3555 Mooney Ave., (1) $31,223 (2) $32,730; R. E. Cash, 4234 Greenlee Ave., St. Bernard, (1) $33,981; Byrnes & Conway, 894 Greenwood Ave., (1) $34,535; J. S. Radabaugh, Montgomery, (2) $34,635; W. P. Flynn, 1252 Chase Ave., (2) $35,546.

O., Cleveland — Opened bids Feb. 14, grading, curbing and paving (1) East 108th St., (2) Valley Rd. (3) Darley Ave. (4) Spring Rd., 16,090 lin.ft. stone curb and 4 in. tile drain gutter, 12,550 cu.yd. earth excav., 26,311 sq.yd. vitr. brick on concrete, from Enterprise Paving & Constr. Co., 8440 Bway., (1) $22,655; O. G. Leach, Eddy Rd., (1) $18,396 (4) $55,557; Roehl Bros., West 25th St. and Clark Ave., (2) $54,512 (4) $64,173; Baldwin Bros., 4500 Euclid Ave., (2) $61,955; Gould & Maybach, 823 East 150th St., (3) $29,310; H. G. Herring, Pavers Exch., (3) $35,204. Noted Feb. 8.

O., Cleveland—Grading, curbing and paving (1) Hoy Ave. from East 128th to East 131st Sts. (2) West Boulevard from Adelaide to Thrush Aves. (3) East 125th St. from Kinsman to Luke Rds. (4) Unity Ave. from West Boulevard to West 101st St. (5) East 122nd St. from Miles Ave. to point 610 ft. northerly (1 to 5 inclusive) involve 7,400 lin.ft. stone curb and 4 in. tile drain gutter, 11,950 cu.yd. earth excav., (a) 11,045 sq.yd. vitr. brick on concrete, (b) 10,985 sq.yd. asphalt, (c) 4,506 sq.yd. concrete (6) Eaglesmere Ave. from East 133rd to East 140th Sts. (7) West 110th St. from Loretta to Walford Aves. (8) Hlavin Ave. from East 128th to East 131st Sts. (9) Argus Ave. from East 133rd to East 140th Sts. (10) East 110th St. (6 to 10 inclusive) involve 4,920 lin.ft. stone curb and 4 in. drain tile gutter, 7,510 cu.yd. earth excav., (a) 15,700 sq.yd. vitr. brick on concrete (b) 12,150 sq.yd. asphalt, from A. M. Pejsa, Euclid Heights Blvd., (1) $9,609 (3b) $11,774 (8b) $10,050 (10) $10,101; Baldwin Bros., 4500 Euclid Ave., (1) $9,902 (3b) $11,747; O. G. Leach, Eddy Rd., (2c) $58,503; W. McHugh, c/o Pavers Exch., Society for Savings Bldg., (2b) $64,907 (4b) $11,693; Freshwater Constr. Co., Natl. Bldg., (4a) $13,993 (7a) $18,295; Enterprise Paving & Constr. Co., 8444 Bway., (5) $21,187 (10) $9,901; Roehl Bros., West 25th St. and Clark Ave., (5) $21,368 (7a) $17,350 (7b) $17,781 (8a) $12,899; Gould & Maybach, 823 East 150th St., (6a) $28,814 (6b) $23,815 (9a) $28,369 (9b) $23,650; River Constr. Co., 2402 Mapleside Rd., (6a) $29,202 (9a) $28,883. Noted Jan. 11 and 18.

O., Shaker Heights (Cleveland P. O.)—Grading, curbing and paving (1) Helen Ave. (2) North Moreland Blvd. (3) Milverton Rd. (4) East 150th St. (5) Warwick Rd., 15,800 lin.ft. stone curb, 234,200 cu.yd. earth excav., 238,712 ft. 6 in. concrete base, 223,760 sq.ft. vitr. brick and 21,490 sq.yd. asphalt, from Cleveland Trinidad Paving Co., The Arcade, Cleveland, (1) $8,343 (2) $54,822 (3) $43,209 (4) $23,868 (5) $17,976; Rieley Bros., The Arcade, Cleveland, (1) $8,431 (2) $55,893; Baldwin Bros. 4500 Euclid Ave., Cleveland, (3) $43,967 (4) $24,079 (5) $18,427.

Ind., Indianapolis — Marion Co. opened bids Feb. 15, paving 2.8 mi. English Ave. Rd., 20 ft., 26,895 sq.yd. asphalt on concrete, 10,200 cu.yd. earth excav., from Marion County Constr. Co., 1600 South West St., $73,400. Engrs. est. $83,638. Noted Oct. 19.

Tex., Corsicana—Navarro Co. surfacing with crushed rock 7.71 mi. State Highway 31, 12 ft., incl. 18,054 cu.yd., from Scarborough & Davis, Gaston Bldg., Dallas, $88,366; F. P. McElwrath, Corsicana, $90,340. Engrs. est. $90,870. Noted Dec. 21.

Calif., Inglewood—Grading and paving portion Manor Dr., 4,265 lin.ft. grading, 93,149 sq.ft. willite paving, etc., from Bryant, Braun & Austin, 1680 4th St., Santa Monica, $28,046; C. R. Curtis, 2440 East 26th St., Los Angeles, $29,651.

Calif., Los Angeles — Improving Larchmont Ave. between Melrose and Beverly Sts., 646,811 sq.ft. grading, 646,811 sq.ft. concrete pavement, etc., from Tryon & Brain, Tajo Bldg., $175,696; G. H. Oswald, 366 East 58th St., $176,428; W. Liddington, 420 East 60th St., $178,524.

Calif., Los Angeles—Supervs. Los Angeles Co. improving Anaheim-Telegraph Rd., from G. H. Oswald, 366 East 58th St., $74,898; Griffith Co., Los Angeles Ry. Bldg., $76,768; G. R. Curtis, 2440 East 26th St., $80,011. Noted Feb. 1.

Calif., San Francisco — City and San Francisco Co., improving (1) boulevard connecting Lincoln Park with Sutro Heights (2) Vicente St. between Forestside and 19th Aves., from J. McElroy, 180 Jessie St., (1) $56,615; J. M. Smith, 407 11th St., (1) $56,838 (2) $63,984; L. J. Cohn, 110 Sutter St., (1) $57,645; Fay Impvt. Co., Phelan Bldg., (2) $63,174. Noted Feb. 8.

Calif., Yreka — Siskiyou Co. improving Salrom River Rd. Butler Sect., from Warren Constr. Co., Bacon Bldg., Oakland, $89,660; W. B. Arndt, Crescent City, $92,806; C. H. Warren, 463 35th St., Oakland, $93,132.

CONTRACTS AWARDED

New York—F. S. Greene, comr. highways, Albany, improving 1.33 mi. Highway 1544, Dutchess Co., to H. G. Strong, 151 East 38th St., New York City, $48,268; 6.61 mi. Highway 8150, Erie Co. and 4.84 mi. Highway 8151, Erie Co., to Cold Spring Constr. Co., Ellicott Sq. Bldg., Buffalo, $247,280 and $201,706 respectively; 10.07 mi. Highway 8152, Hamilton Co., to Bricon Constr. Co., Inc., 73 West Eagle St., Buffalo, $405,345; 0.08 mi. Highway 1117-A Saratoga Co., to J. McLane, Rexford, $3,784; 0.11 mi. Highway 1662, Saratoga Co., to J. W. Flynn, 141 Broad St., Waterford, $7,900; 3.47 mi. Highway 1665, Schuyler Co., to W. Curtis & Co., Geneva (street address not available), $125,042; reconstructing 4 mi. Repair Contrs. 3036 and 3037, Montgomery Co., to L. D. Sullivan Co., Inc., White Bldg., Utica, $147,617; 4.24 mi. Repair Contr. 3049, Saratoga Co., to R. Hopkins Co., Albany (street address not available), $83,333. Noted Feb. 15.

N. J., Salem—Salem Co. paving 33,350 sq.yd. Pennsville-Salem Rd., bituminous macadam, to Weldon Contg. Co., Broad St., Westfield, $90,348. Noted Jan. 25.

Md., Baltimore—Repairing streets, sheet asphalt, to Amer. Paving Co., Montebello, P. Flanigan & Sons, Hartford Rd. and B. & O. R.R., and Baltimore Asphalt Block & Tile Co, 1320 North Monroe St. Engrs. est. $100,000.

North Carolina—State Hy. Dept., Raleigh, grading, asphaltic paving and rein.-con. bridges and culverts on 1 mi. State Project 391A, Robeson Co., to R. G. Lassiter & Co., Citizens Bank Bldg., Raleigh, $39,393; clearing, grading and topsoiling 11.63 mi. State Project 815, Burke Co., to Geer & Wilson, Rutherfordton, $89,446, 20.55 mi. State Project 555, Randolph and Montgomery Counties, to Mayfield Contg. Co., Lakeview, $83,176, 17.4 mi. State Project 147, Bertie and Hertford Counties, to N. L. Teer, Durham, $73,573, 15.22 mi. State Project 363, Onslow Co., to Newell Contg. Co., 3828 Ave. A, Birmingham, Ala., $109,826, 9.04 mi. State Project 486, Wake Co., to O. A. Mann & Co., La Grange, Ga., $37,332; clearing, grading, topsoiling and rein.-con. bridges and culverts on 7.01 mi. State Project 403, Chatham Co., to H. G. Kershaw Contg. Co., Woodward Bldg., Birmingham, Ala., $60,737, 9.67 mi. State Project 752, Stokes Co., to W. E. Graham, Mt. Ulla, $113,728, 11.67 mi. State Project 512, Caswell Co., to J. T. Plott, Greensboro, $49,772; clearing and grading 7.31 mi. State Project 991, Transylvania Co., to Gibson Constr. Co., Holston Bank Bldg., Knoxville, Tenn., $91,445; grading and asphaltic concrete paving 11.35 mi. State Project 743, Forsyth Co., to Atlantic Bitulithic Co., Wash., D. C. (street address not available), $376,981, 7.34 mi. State Project 671, Rowan Co., to Thompson-Caldwell Constr. Co., Mooresville, $247,761; grading and plain concrete paving 19.62 mi. State Project 155 B, Martin and Pitt Counties, to W. F. Hadlow, Baldwin Bldg., Jacksonville, Fla., $501,641, 14.96 mi. State Project 163, Nash Co., to Pub. Serv. Production Co., Terminal Bldg., Newark, N. J., $407,718; clearing, grading, plain concrete paving and rein.-con. bridges and culverts on 6.94 mi. State Project 429, Granville Co., to A. B. Sandidge & Co., Georgetown, Del., $237,634, 2.44 mi. State Project 273, Sampson Co., to Eagle Eng. Co., New Bern, $88,106. Noted Feb. 15.

North Carolina — State Hy. Dept., Raleigh, clearing and grading 19.43 mi. State Project 107, Bertie Co., to N. L. Teer, Durham, $67,505. Noted Feb. 15.

Fla., Orlando — Orange Co., to Lasley Bros. and Howey, Chattanooga, Tenn. (street address not available), paving 4 mi. road from Bithlo north to Seminole

Streets and Roads (Continued)

Co. line, Project 10, 41,400 lin.ft. concrete curb at $0.25, 35,500 sq.yd. vitr. brick, sand filled nat. base, $2.20; to Southern Paving Constr. Co., Vol Life Bldg., Chattanooga, Tenn., 26.7 mi. road from Orlando to St. Johns River, Project 1, 282,000 lin.ft. concrete curb $0.27, 240,000 sq.yd. 5 in. Florida rock base $1.05, 240,000 sq.yd. 2 in. sheet asphalt, without binder, $1.01, 4.3 mi. road from Orlando to Winter Park, Project 7, 5 acres clearing $85, 20,000 cu.yd. excav. $0.33, 46,000 lin.ft. concrete curb $0.25, 39,000 sq.yd. 5 in. Florida lime rock base $0.75, 39,000 sq.yd. 2 in. sheet asphalt, without binder $1.01, 82 cu.yd. Class A concrete $27, 135 cu.yd. Class B concrete $24, 13,000 lb. reinforcing $0.08, etc., 3.8 mi. between Winter Park and Golden Rod, Project 6, 5 acres clearing $60, 20,000 cu.yd. excav. $0.33, 40,000 lin.ft. concrete curb $0.25, 35,000 sq.yd. 5 in. Florida rock base $0.75, 35,000 sq.yd. 2 in. sheet asphalt, without binder $1.01, 65 cu.yd. Class A concrete $27, 54 cu.yd. Class B concrete $24, 4,000 lb. reinforcing $0.08, etc., 2 mi. road from Tildenville south, 4 acres clearing $60, 10,000 cu.yd. excav. $0.33, 21,500 lin. ft. concrete curb $0.25, 18,000 sq.yd. 2 in. sheet asphalt, without binder, $1.01, 20 cu. yd. Class A concrete $27, 20 cu.yd. Class B concrete $24, etc., 2 mi. road from Winter Garden south, 4 acres clearing $60, 10,000 cu.yd. excav. $0.33, 21,500 lin.ft. concrete curb $0.25, 18,000 sq.yd. 2 in. sheet asphalt, without binder $1.01, 45 cu.yd. Class A concrete $27, 40 cu.yd. Class B concrete $24. 2,100 lb. reinforcing $0.08, etc. Contracts awarded latter part of January.

Ohio—Dept. Highways and Pub. Wks., Columbus, grading, bridging and paving roads in following counties:

Crawford Co., Sect. "C" Bucyrus-Crestline Rd., 1.69 mi., asphalt macadam, oil, to Losey Road Constr. Co., Kenton, $46,580.

Cuyahoga Co., Sect. "A" Solon-Willoughby Rd., and Sect. "B-1" Chagrin Falls-Cuyahoga Falls Rd., 2.52 mi., warrenite bitulithic and brick, to Ohio Contg. Co., Elyria, (street address not available), $144,847.

Geauga Co., Sect. "J" Chagrin Falls-Greenville Rd., 2.182 mi., brick, to J. A. Westrick, Napoleon, $41,437.

Meigs Co., Sect. "M" Pomeroy-Athens Rd., 4.009 mi., rein.-con., to S. A. Palmer, Marietta, $122,647.

Mercer Co., Sect. "H-2" Celina-Greenville Rd., 4.28 mi., rein.-con., to R. Doaust, Defiance, $113,295.

Sandusky Co., Sect. "S-2" Lima-Sandusky Rd., 2.349 mi., sheet asphalt on a concrete, to Modern Constr. Co., Fremont, $94,-620.

Huron Co., Sec. "K" and "J-1" Bellevue-Norwalk Rd., rein.-con. bridge, to W. A. Yeagle, Clyde, $15,646.

Lorain Co., Sects. "D" and "E" Cleveland-Elyria Rd., constructing culvert, to Elyria Constr. Co., 220 Elyria Blk., Elyria, $973.50. Noted Feb. 22.

O., Bexley (Columbus P. O.) — S. W. Roderick, village clk., to Grant-Boulton Co., Central Natl. Bank Bldg., Columbus, grading, curbing, laying 8 in. water main, making necessary sewer connections and paving with asphalt, 2,200 ft. Ardmore Rd., 24 ft., $44,366, 550 ft. Seneca Pl., 24 ft., 24 ft., $39,836, 350 ft. Seneca Pl., 24 ft., $8,432, 2,000 ft. Fair Ave. 36 ft. roadway with 18 ft. parkway in center, $49,443. Noted Feb. 23.

O., Cleveland — Commissioner Purchases & Supplies, 219 City Hall, grading, curbing and paving Gruss Ave., East 117th and East 127th Sts., 6,500 lin.ft. stone curb and 4 in. tile drain gutter, 2,160 cu.yd. earth excav., 5,530 sq.yd. vitr. brick, 5,570 sq.yd. concrete base, to River Constr. Co., 2402 Mapleside Rd., $35,270; East 124th St., Ada and Arbor Aves., 2,690 lin.ft. stone curb and 4 in. tile drain gutter, 3,350 cu.yd. earth excav., 8,230 sq.yd. vitr. brick on concrete, to O. G. Leach, Eddy Rd., $34,699; Iroquois Ave. and East 130th St., 2,050 lin.ft. stone curb and 4 in. tile drain gutter, 4,460 sq.yd. vitr. brick on concrete, 3,500 cu.yd. earth excav., to Gould & Maybach, 823 East 150th St., $15,525. Noted Feb. 15.

Ind., Ft. Wayne—Paving 5 mi. sidewalk, 5 ft. concrete, to C. Coil, 2525 Florida St., $1.04 per lin.ft. Engrs est. $30,000.

Ind., Monticello—Paving 10,495 ft. East Bway., 30 ft., 34,983 sq.yd. concrete on concrete, to W. J. Nees & Co., Frankfort, $76,963. Engrs. est. $81,200.

Ind., Versailles — Ripley Co., macadam surfacing 9,061 ft. John Bland Rd., 16 ft., to H. Dobson, Osgood, $31,135. Engrs. est. $37,000. Noted Feb. 22.

Wis., Fond du Lac—Fond du Lac Co. State Road and Bridge Com., concrete surfacing, etc., Fond du Lac-Ripon-Green Lake Rd., to Cherney Constr. Co., Francis Creek, $141,058; Ripon-Oshkosh Rd. and Waupon-Brandon Rd., to A. J. Kramp, Berlin, $105,-872 and $70,869 respectively.

Wis., Fond du Lac—Concrete surfacing, etc., Ladoga-Brandon-Ripon Rd., to Kroening Constr. Co., 39th Ave. and Mitchell St., Milwaukee, $134,108. Noted Feb. 15.

Wis., Milwaukee — Milwaukee Co., concrete surfacing, etc., Brown Deer-Manomonee Fallas Rd., to J. Bluhm & Sons, 1298 Achilles Pl., $68,500. Noted Feb. 8.

Ia., Dubuque — To Even-Ulrick-Staner Co., Dubuque, 59,000 sq.yd. vibrolithic concrete paving $2.33 to $2.47 per sq.yd., to J. Rasmussen & Sons, Mankato, Minn., 100,000 sq.yd. sheet asphalt paving $1.42.

Ia., Sioux City—Auditor Woodbury Co., grading and concrete paving 5.02 mi. Correctionville-Cushing Rd., 12.19 mi. Sioux City-Smithland Rd. and 8 mi. Salix Rd. southeast, all 18 ft., 272,449 sq.yd. concrete pavement, 138,772 cu.yd. excav., to C. F. Lytle Constr. Co., 504 Nebraska St., paving $2.26 per sq.yd., excav. $0.63 per cu.yd., total $703,161. Noted Feb. 1.

Kan., Atwood — Rawlins Co., grading Kansas City-Denver Air Line Rd., incl. 90,000 cu.yd. earth excav., to A. L. Cook, Ottawa, $26,049; culverts and bridges, incl. 772 cu.yd. concrete, to Wallace Bros., Atwood, $10,189 and $10,493 respectively. Engrs. est. $61,000. Noted Jan. 18.

S. D., Platte—Paving Main St. between 1st and 7th Sts., 18,873 sq.yd. concrete, 4,095 lin.ft. curb, also between 7th St. W. and 11th St., 7,197 sq.yd. concrete, 5,375 lin.ft. curb, to Larson Constr. Co., Albert Lea, Minn., $86,885. Noted Jan. 18.

Missouri — State Hy. Dept., Jefferson City, to Reynolds, Bloker & Crews, Caruthersville, 3.563 mi. State Project Route 9, Sect. 147, Pemiscot Co., $14,493, 3.383 mi. State Project Route 9, Sect. 146, Pemiscot Co., $13,932, 0.665 mi. State Project Route 9, Sect. 149, Pemiscot Co., $2,302, 3.631 mi. State Project Route 9, Sect. 151, Pemiscot Co., $39,646; to Illinois Steel Bridge Co., Jacksonville, Ill., 1.837 mi. State Project Route 4, Sect. 18, Gentry Co., $120,628. Noted Feb. 15 and 20.

Missouri—State Hy. Dept., at div. office Harrisonville, 4.11 mi. State Aid Project 20,174, 24 ft., Cass Co., to Graham & Dillion, Pleasant Hill, $21,433. Noted Jan. 25.

Missouri—State Hy. Dept., Jefferson City, 3.087 mi. State Project Route 3, Sect. 112, Taney Co., to E. A. Luck, Black Rock, Ark., $19,043; 3.03 mi. State Project Route 14, Sect. 39, Pulaski Co., and 2.879 mi. State Project Route 14, Sect. 40, Pulaski Co., to S. T. Rollins, Waynesville, $9,367 and $10,343 respectively; 3.707 mi. State Project Route 7, Sect. 65, Phelps Co., to M. E. Gillioz, Monett, $24,883; 0.568 mi. State Project Route 10, Sect. 37, Randolph Co., to Lynch-McDonald Constr. Co., Moberly, $35,294; 2.952 mi. State Project Route 15, Sect. 63, Camden Co. and 3 mi. State Project Route 51, Sect. 24, Bollinger Co., to Pioneer Constr. Co., 101 New York Life Bldg., Kansas City, $73,280 and $68,-784 respectively; 3.833 mi. State Project Route 78, Sect. 3, Taney Co., to J. E. Hartley, Mt. Vernon, $16,750; 1.082 mi. State Project Route 9, Sect. 26, Marion Co., to H. C. Harbicht, Hannibal, $40,689; 0.928 mi. State Project 55, Sect. 6, Scott Co., to G. E. Stoner, Charleston, $45,788; 0.568 mi. State Project Route 14, Sect. 36, Laclede Co., to General Constr. Co., Syndicate Trust Bldg., St. Louis, $21,326; 0.25 mi. State Project Route 40, Sect. 20, Douglas Co., to Allhands & Davis, 705-6 Frisco Bldg., Joplin, $19,877; 5 mi. State Project Route 19, Sect. 4, Crawford Co., to Powell & Gaven Co., Collinsville, Ill., $37,381; 4.962 mi. State Project Route 14, Sect. 5, Lawrence Co., 4.986 mi. State Project Route 14, Sect. 6, Lawrence Co., 4.794 mi. State Project Route 14, Sect. 3, Jasper Co., 4.938 mi. State Project Route 14, Sect. 7, Lawrence Co., and 2.897 mi. State Project Route 14, Sect. 8, Lawrence Co., to Carterville Constr. Co., Carterville, $19,630, $33,-927, $26,856, $49,561 and $23,256 respectively; 2.548 mi. State Project Route 1, Sect. 14, Holt Co., to Pittsburgh-Des Moines Steel Co., Tuttle and S. W. 10th Sts., Des Moines, Ia., $26,656; 4.702 mi. State Project Route 34, Sect. 13, Wayne Co., to Muskogee Constr. Co., 223 Cole Bldg., Tulsa, Okla., $46,406; 3.411 mi. State Project Route 15, Sect. 11, Knox Co., to W. H. and G. H. Turner, Memphis, $50,055; 3.238 mi. State Project Route 3, Sect. 113, Taney Co., to Cox & Chaney, Branson, $19,686; 0.786 mi. State Project Route 16, Sect. 41, Adair Co., to Harrison Constr. Co., 413 Kraft Blk., Des Moines, Ia., $44,475; 1.161 mi. State Project Route 10, Sect. 25, Chariton Co. and 4.318 mi. State Project Route 10, Sect. 24, Chariton Co., to C. Parker, Keytesville, $5,734 and $32,818 respectively; 4.452 mi. State Project Route 1, Sect. 13, Holt Co., to Roberts & Reynolds Constr. Co., Sabetha, Kan., $37,082; 4.942 mi. State Project Route 2, Sect. 5, Jackson Co., 4.974 mi. State Project Route 2, Sect. 6, Jackson Co., 4.345 mi. State Project Route 2, Sect. 4, Jackson Co. and 4.109 mi. State Project Route 2, Sect. 3, Jackson Co., to W. A. Ross, Kansas City, (street address not available) $171,304, $235,311, $251,267 and $152,783 respectively; 4.994 mi. State Project Route 8, Sect. 13, and 4.964 mi. State Project Route 8, Sect. 12, both Caldwell Co., to Highway Constr. Co., Tulsa, Okla., (street address not available) $231,762 and $224,482 respectively; 3.379 mi. State Project Route 2, Sect. 8, Lafayette Co., to Tibbets Constr. Co., Independence, $36,038; 0.274 mi. State Project Route 9, Sect. 52, Lincoln Co., to J. P. Sparks, Kirkwood, $22,899; 4.943 mi. State Project Route 14, Sect. 77, and 2.244 mi. State Project Route 14, Sect. 76, both St. Louis Co., to E. Berns Co., Indianapolis, Ind. (street address not available) $316,-623. Noted Feb. 15 and 22.

Missouri—See "Bridges."

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, repaving 6,400 ft. Chouteau Ave. from Bway. to Jefferson Ave., 50 ft., 15,-900 sq.yd. recut granite block, 15,900 sq. yd. asphalt filler, 4,240 sq.yd. concrete, 3,600 cu.yd. earth excav. and 13,400 lin.ft. granite curb, to Independent Quarry & Contg. Co., Title Guaranty Bldg., $197,917. Noted Jan. 11.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, improving 5,600 ft. Arsenal St., 36 ft., 7 in. concrete, granite curb, to Skrainka Constr. Co., Security Bldg., $86,638; 2,250 ft. Taylor Ave., 36 ft., warrenite bitulithic with Class A granite curb, to Granite Bituminous Paving Co., Ry. Exch. Bldg., $54,842; 5,140 ft. West Florissant Ave., 36 ft., Trinidad asphalt on concrete, to Trinidad Asphalt Mfg. Co., Title Guaranty Bldg., $139,084; reconstructing 3,100 ft. 7th St., 36 ft., recut granite with granite curb and 5,202 ft. Clayton Ave., 36 ft., Trinidad asphalt, to Independent Quarry & Constr. Co., 4875 Ashland Ave., $86,656 and $53,-015 respectively; 1,900 ft. Chouteau Ave., 30 ft., Trinidad asphalt, to O. S. Grighton, 4115 McRee Ave., $18,264. Noted Feb. 15.

Tex., Clarksville—Red River Co. grading, gravel surfacing, etc., 5.74 mi. State Highway 5, Federal Aid Project 315, 12 ft., to Womack Constr. Co., Sherman, $29,245; gravel surfacing to be furnished by county, $20,000. Engrs. est. $54,150. Noted Feb. 22.

Tex., Denton—Paving 1 mi. West Oak St. from Public Sq. to city limits, 30 ft., 10,610 lin.ft. curb and gutter, 7,000 cu.yd. crushed stone, 1,500 cu.yd. chats, 8,000 gal. bitumen, 26,934 sq.yd. 2 in. rock asphalt paving, to W. M. Jagoe Co., Denton, $55,740. Engrs. est. $55,000.

Tex., Jefferson—Marion Co. grading, gravel surfacing and bridging 14.42 mi. State Highway 35, Avinger Rd., 16 ft., concrete, $150,676; grading and gravel surfacing 21.75 mi. State Highway 35-B, Frees City Rd., from here to the Louisiana State line, 16 ft., $239,162. T. B. Warden, co. engr.

Tex., Laredo—Grading, preparing roadbed and paving various streets, 120,062 sq. yd. bitulithic, 62,000 lin.ft. curbing, 7,083 sq.yd. vitr. brick or concrete guttering, to Southwest Bitulithic Co., Gunter Bldg., San Antonio, $387,167. Noted Jan. 4.

Oklahoma—State Hy. Dept., Oklahoma City, paving with concrete 6 mi. road between Ponca City and Newkirk, 18 ft., Kay Co., to M. A. Swatek & Co., Security Bldg., Oklahoma City, $196,114; gravel surfacing 7 mi. road between Poteau and Wister, 18 ft., Le Flore Co., to T. C. Ottinger, Main St., Hinton, $83,842. Noted Feb. 1.

Okla., Oklahoma City—City paving Central Ave. from Santa Fe to east line of Ave. C, 10,400 sq.yd. asphalt, to Western Paving Co., Tradesmans Natl. Bank Bldg., $53,926; Central Ave. from Ash to Ave. A, 15,000 sq.yd. concrete, to M. A. Swatek & Co., Security Bldg., $54,401.

N. M., Artesia—For 13,742 sq.yd. 6 in. plain concrete paving, 2,290 cu.yd. excav., 13,742 sq.yd. finishing and rolling, 3,135 ft. 6 in. concrete curb, etc., to Fredell Concrete Constr. Co., Douglas, Wyo., $2,23 for paving, $0.60 for excav., $0.04 for finishing, $0.60 for curb, total $34,977. Noted Jan. 25.

Wash., Colfax—Whitman Co., constructing 7.5 mi. Coulee-Hite Rd., 16 ft., 8 in. macadam, to Campbell & Burr, Colfax, $73,977.

Wash., Pasco — Franklin Co., surfacing 10 mi. Pasco-Kahlotus Rd., to G. I. Stickler, Lewiston, Idaho, $26,346. Engrs. est. $27,000.

Calif., Fresno—Improving Belmont Ave. between Fresno Ave. and North 1st St. and Floradora St. between Lucerne Lane and Van Ness Ave., to California Road & Street Impvt. Co., Bank of Italy Bldg., $38,832 and $35,606 respectively. Noted Feb. 22.

Streets and Roads (Continued)

Calif., Fresno—Supervs. Fresno Co. paving highway near Reedley, 531,900 sq.ft. 5 in. asphaltic concrete, to T. A. Hanrahan, 1361 P St., $109,958; highway in vicinity of Clovis, 280,300 ft. 5 in. asphaltic concrete, to Clark & Henery Constr. Co., 38 South Sutter St., Stockton, $72,534. Noted Feb. 22.

Calif., Los Angeles—Improving 1st St. between Rampard Blvd. and Vermont St., to Warren Constr. Co., 5444 Hollywood Blvd., $138,134. Noted Feb. 15.

Calif., Oroville—Supervs. Butte Co., improving Oroville-Chico Rd., and Biavo-Nelson Rd., to T. H. and M. C. Polk, Chico, $63,288 and $53,799, respectively. Noted Feb. 22.

Calif., Stockton—San Joaquin Co., improving French Camp Rd. and Lane Rd., to C Moreing, Commercial Savings Bank Bldg., $57,347 and $14,320, respectively; Bixler Rd., to Guy Bros., Stockton, $3,724. Noted Feb. 22.

Industrial Works

PROPOSED WORK

Vt., Barre—A. B. Carter plans 1 story, 75 x 195 ft. garage, brick and steel. $50,000. Engineer or architect not selected.

Mass., Boston—Boston Wharf Co., 259 Summer St., 5 story, 50 x 155 ft. warehouse, brick, concrete and steel, Summer St. $400,000. Engineer or architect not announced.

Mass., Boston—E. V. Earle & Sons, Inc., 200 Devonshire St., having plans prepared by G. N. Meserve, archt., 200 Devonshire St., 6 story, 100 x 150 ft. stores, building and warehouse, brick and limestone, Columbia Ave. and Clarendon St. $750,000.

Mass., Boston—Edison Electric Illuminating Co., 70 State St., having preliminary plans prepared by Stone & Webster, Inc., archts. and engrs., 147 Milk St., power distributing station, Warrenton and Carver Sts.

Mass., Springfield—Dairymens Co-operative Assn., c/o W. A. Robinson, Hardwick, plans milk exchange, here. $80,000-$100,000.

R. I., Bristol—Jenks & Ballou, archts. and engrs., 10 Weybosset St., Providence, soon take bids 5 story, 64 x 122 ft. mill addition, brick and timber, plain foundation, for Cranston Worsted Co. $100,000. Noted Feb. 1.

Conn., Meriden—Connecticut Telephone and Electric Co., 70 Britannia St., plans 1 story addition to plant, brick, steel and concrete. Engineer or architect not announced.

Conn., Newington—Acme Mchy. and Equipment Co. plans 1 story, 100 x 225 ft. factory, brick and steel. $80,000. Engineer or architect not announced.

Conn., Putnam—Hammond, Knowlton & Co. plan large 1 story weave shop, brick, concrete and steel, at plant. Engineer or architect not selected.

N. Y., Buffalo—Root Tire Truck Service, 62 Genesee St., plans 1 story, 30 x 100 ft., service and repair station, brick, steel and concrete, Ellicott Sq. To exceed $40,000. Engineer and architect not announced.

N. Y., Clarence — Buffalo Tractor Co. purchased site and plans factory addition. $50,000. Engineer and architect not selected.

N. Y., Endicott—See "Miscellaneous."

N. Y., Massena—Beakes Dairy Co. plans rebuilding milk handling and storage plant recently destroyed by fire. $150,000-$160,000. C. H. C. Beakes, mgr.

N. Y., Medina—Knowlesville Canning Co., Knowlesville, plans brick plant, Hill St., here. $75,000. Engineer and architect not announced.

W. Va., Huntington — Motor Sales Co., 1611 6th Ave., having revised plans prepared by Meanor & Handloser, archts., Robson-Prichard Bldg., 6 story, 90 x 100 ft. garage, brick, steel, tile and terra cotta, 6th Ave. $200,000. Noted Nov. 16.

W. Va., Weston — Lewis County Cut Glass Co. plans glass factory. To exceed $50,000. Engineer or architect not announced.

N. C., Hickory—Hickory Chair Mfg. Co., soon takes bids 1 story, 70 x 260 ft. chair factory. $50,000. Q. E. Herman, Hickory, archt.

S. C., Clinton—Lydia Mills having plans prepared by Lockwood, Greene & Co., engrs., Piedmont Bldg., Charlotte, N. C., addition to sheeting mill. $100,000.

Fla., Tampa—A. B. Hale, (owner and engr.) 2906 Nebraska Ave., preparing plans 35 ton ice and cold storage plant, North Rome and Fuller Sts. $50,000.

Ky., Livingston—Ohio-Kentucky Fluo-Spar Co., plans large fluo-spar plant, on 100 acre site. $100,000. Engineer or architect not announced.

O., Cleveland—See "Buildings."

O., Cleveland—Gerson-Stewart Co., 1276 West 3rd St., had plans prepared by W. J. Wefel, archt., 1836 Euclid Ave., 1 story, 80 x 100 ft., brick, steel and concrete factory, East 74th St., along tracks of Western & Lake Erie R.R. $50,000.

O., Cleveland—H. J. Hunger Brass Co., 928 Champlain Ave., having plans prepared by Withington-Roberts-Wright Co., archts., Swetland Bldg., 1 story, 89 x 139 ft., brick and steel foundry. $60,000.

O., Gambier—See "Buildings."

O., Mansfield—Barnes Mfg. Co., had plans prepared by G. S. Rider & Co., archts., Century Bldg., Cleveland, 1 story, 73 x 261 ft., brick, steel and concrete foundry and factory addition. $75,000.

Ind., New Albany—Natl. Hame & Chain Co. plans factory to replace one destroyed by fire. $100,000. Engineer or architect not announced.

Mich., Holland — Federal Stamping Co. had plans prepared and takes bids in March, 1 story, 100 x 260 ft. concrete and brick factory, plain foundation, River St. $100,000.

Mich., Pontiac—Fisher Body Corp., General Motors Bldg., Detroit, having preliminary plans prepared by A. Kahn, archt., 1000 Marquette Bldg., Detroit, two 1 story units and one 2 story unit, 150 x 500 ft., rein.-con., brick and steel, plain foundation, Baldwin Ave. $2,000,000.

Ill., Chicago — R. Gregori, archt., 155 North Clark St., preparing plans 1 story, 100 x 125 ft. garage, rein.-con., brick and steel, Cottage Grove Ave. near 94th St. $50,000. Owner's name withheld.

Ill., Chicago—Ford Motor Co., Woodward Ave., Highland Park (Detroit P. O.), Mich., takes bids about March 10, for 94 x 100 ft. power house, rein.-con., brick and steel, with 165 ft. stack, for auto factory on Calumet River, here. A. Kahn, 1000 Marquette Bldg., Detroit, Mich., engr. Noted Dec. 7.

Ill., Chicago—Melba Mfg. Co., 4237 Indiana Ave., plans 160 x 186 ft., rein.-con., brick and steel plant, Michigan Ave. and 43rd St. $300,000. Engineer and architect not selected.

Wis., Madison—S. Sinaiko, 1968 Railroad St., plans to rebuild 2 story and basement mill, brick and rein.-con., plain foundation, Railroad St. $40,000. Engineer and architect not selected.

Wis., Madison—J. E. Teckemeyer, 807 University Ave., having plans prepared by E. Tough, archt., Conklin Bldg., 1 or 3 story, 36 x 70 ft., service station, brick, rein.-con. and stone, plain foundation, University Ave. $40,000.

Wis., Manitowoc—Globe Steam Laundry, c/o E. Hemple, mgr., 14th St. and Washington Ave., having plans prepared 2 story, 46 x 120 ft., brick, rein.-con. and steel laundry, plain foundation, Washington Ave. $50,000. Private plans.

Wis., Manitowoc — J. C. Larimer, 944 South Quincy St., Green Bay, plans 2 story, 60 x 150 ft. cement plant, brick, rein.-con. and steel, plain foundation, here. Engineer and architect not selected.

Wis., Markesan — River View Canning Co., c/o W. A. Miller, pres., Farmers State Bank, having plans prepared 3 story, 50 x 80 ft., canning factory and power house, brick, rein.-con. and steel. $50,000. Private plans.

Wis., Milwaukee — M. Carpenter Baking Co., 102 7th St., having plans prepared by C. Barkhausen, archt., 79 Wisconsin St., 2 story and basement, 42 x 100 ft. addition to bakery, brick and concrete, plain foundation, 7th St. $50,000.

Wis., Milwaukee—Oneida Impvt. Co., 214 Biddle St., plans 5 story and basement, 150 x 175 ft., brick and concrete garage, plain foundation, Front St. $300,000. Engineer and architect not selected.

Wis., Milwaukee—M. R. Hayes, 97 Wisconsin St., had plans prepared by V. Esser, archt., 82 Wisconsin St., 1 story and basement, 80 x 150 ft., brick and concrete garage, plain foundation, Cambridge Ave. $45,000.

Wis., Neenah — Valley Paper Mills, 145 Wisconsin Ave., having preliminary plans prepared by Cahill & Douglas, engrs., 217 West Water St., Milwaukee, 60 x 160 ft. power house.

Wis., Port Washington—Gilson Mfg. Co. plans to rebuild 4 story, brick, rein.-con. and steel factory, plain foundation, recently destroyed by fire. $100,000. H. W. Bolens, pres. Engineer and architect not selected.

Wis., Sturgeon Bay—Fruit & Dairy Box Co. plans 2 story unit to box factory, brick and rein.-con., plain foundation. $40,000. J. G. Martin, pres. Engineer and architect not selected.

Wis., Wittenberg—Holman Mfg. Co., 1910 North 13th St., Sheboygan, plans 2 story and basement, brick, rein.-con. and steel factory, Main St., here. $65,000. H. Holman, pres. Engineer and architect not selected.

Ia., Rochester—Iowa Ry. & Light Co., 201 2nd Ave., Cedar Rapids, had plans prepared by Fargo Eng. Co., 236 West Main St., Jackson, Mich., rein.-con. hydro-electric plant and dam in Cedar River, here. Three plans under consideration (1) 5 unit, 22 ft. head, 27,000,000 K.W.H., $1,317,000 (2) 8 unit, 22 ft. head, $1,551,000 (3) 8 unit, 27 ft. head, 33,800,000 K.W.H., $1,963,000.

Ia., Sioux City—Sioux City Gas & Electric Co., 509 Pierce St., plans power plant. $2,000,000. O. W. Harrod, engr.

Minn., Minneapolis—Bd. Educ. plans 2 story and basement storehouse and shop, rein.-con., brick and tile, 3rd St. N. and 9th Ave. $150,000. Bureau of Buildings, Div. Design and Inspection, 305 City Hall, archts.

Kan., Mildred—Great Western Portland Cement Co. having plans prepared 70 x 115 ft. warehouse, 100 ft. high, 200,000 bbl. capacity, steel and rein.-con. Private plans.

Neb., Omaha—Armour & Co., Union Stock Yards, Chicago, plans 9 story packing plant, rein.-con., brick and steel, here. $2,000,000. Private plans.

Mo., Kansas City—See "Buildings."

Mo., Kansas City—Ralston Purina Co., 8th and Gratiot Sts., St. Louis, takes bids within 6 to 8 weeks, 3 and 6 story, 110 x 640 ft., rein.-con. plant, Rochester and Park Aves., here. $250,000. Private plans.

Mo., St. Louis—Cascade Wet Wash Co., 2311 Texas Ave., having plans prepared by L. Haeger, archt., 3844 Utah Pl., 3 story, rein.-con. and brick laundry, plain foundation, Ohio Ave. $200,000.

Mo., St. Louis—Fidelity Transfer Co., 734 South 7th St., plans 6 story, rein.-con. and brick warehouse, plain foundation, Bway. $200,000.

Mont., Billings — J. Gerson, Billings, plans 2 story and basement, 135 x 200 ft., rein.-con. and brick garage, North 27th St. and Minnesota Ave. $60,000. Engineer and architect not announced.

Tex., Corpus Christi—March 15 to vote on $350,000 bond issue for gas plant, gas mains and conduits. Address P. G. Lovenskiold, mayor.

Tex., Hemphill — Temple Lumber Co. plans to rebuild mill, machine shops and power house recently destroyed by fire. $500,000. Private plans.

Okla., Tonkawa—Comar Oil Co. plans 7 unit refinery. $150,000. Engineer or architect not announced.

Colo., Ashcraft (Aspen P. O.)—Belle Marie Mining & Milling Co., Aspen, having plans prepared by A. J. Petelinz, archt. and engr., 428 Grand Ave., Milwaukee, Wis., mill building, power house, shop, tourists hotel, pavilion, etc., brick and steel, plain foundations. $500,000.

Calif., Los Angeles—P. B. Fletcher, et. al., c/o Walker & Eisen, archts., Pacific Finance Bldg., having plans prepared 9 story, rein.-con. garage, 6th and Kenmore Sts.

Calif., San Francisco — Pacific Gas & Electric Co., 445 Sutter St., plans 5 electrical substations. $1,000,000. W. E. Creed, pres. Private plans.

Calif., Los Angeles—Los Angeles Transfer Co., c/o J. M. Cooper, archt., Marsh Strong Bldg., having plans prepared 2 story, 115 x 325 ft., rein.-con. warehouse and loft, Crocker St. To exceed $150,000.

Calif., San Francisco—Rickey & Schimferman (City Rough Dry Laundry Co.), 1672 15th St., had plans prepared by Meyer & Johnson, archts., 742 Market St., 1 story and mezzanine, 115 x 150 ft., rein.-con. laundry, 14th St. between Mission and Howard Sts. $50,000.

Calif., San Pedro—Pan-American Petroleum Co., Security Bldg., Los Angeles, plans first unit of plant, 30,000 bbl. capacity, here. Total cost between $5,000,000 and $8,500,000.

Calif., Stockton—Fisher Bros., 141 West Channel St., plans 100 x 150 ft. planing mill, also office building, storage sheds, etc., wood, corrugated iron and stucco, East St. and Weber Ave. $100,000. Private plans.

Calif., Taft—Central California Ice Co., P and Mono Sts., Fresno, plans brick plant, 6th St., here. $50,000. Engineer or architect not announced.

Ont., Dresden—C. Morrison having plans prepared for flour mill, 200 bbl. per day capacity. $60,000. Private plans.

Industrial Works (Continued)

Ont., London—H. J. Jones & Sons, Dundas St. E., plans to rebuild plant recently destroyed by fire. $60,000.

B. C., Anyox—Granby Consolidated Mining & Smelting Co. having plans prepared for ore mill and concentrator, fireproof construction. $500,000. Private plans.

BIDS DESIRED

N. Y., Elmira Heights (Elmira, P. O.)—Amer. Bridge Co., taking bids rebuilding template shop recently destroyed by fire. $100,000-$125,000. R. T. Lewis, mgr.

N. Y., Oswego—March 27, by E. S. Walsh, supt. Pub. Wks., Albany, terminal freighthouse, here. Contr. 237; adv. this issue.

N. J., Garfield—March 14, by Lockwood-Green & Co., archts. and engrs., 101 Park Ave., New York City, 4 story, 88 x 315 ft., rein.-con. and steel factory, plain foundation, here, for Samuel Hird & Sons, Inc., Passaic.

Pa., Altoona—March 6, by Pennsylvania R.R., Broad St. Sta., Phila., 3 story, 60 x 400 ft. store house, brick, steel and stone, plain foundation. $100,000. W. H. Cooksman, Broad St. Sta., Phila., archt.

Md., Baltimore—March 6, by Canton Co., Commerce and Water Sts., 2 story, 100 x 500 ft. warehouse, rein.-con. and brick. $150,000. Private plans.

Tenn., Memphis — McCormick Co., Inc., archts., 41 Park Row, New York City, taking bids 2 story, 101 x 107 ft., brick, steel and concrete bakery, for Winkelman Baking Co., 93 North Main St., here. $150,000. Noted Feb. 22.

O., Cleveland—See "Buildings."

O., Cleveland—G. S. Rider & Co., archts. and engrs., Century Bldg., taking bids 6 story and basement, 119 x 221 ft., brick and rein.-con. factory, 3803 Superior Ave., for W. S. Tyler Co., 3615 Superior Ave. $500,000. Noted Feb. 1.

Mich., Marshall—A. B. Chanel, archt., Post Bldg., Battle Creek, taking bids rebuilding 1 story, 130 x 250 ft. brick and steel factory, plain foundation, recently destroyed by fire, for Marshall Furnace Co., here. $40,000.

Wis., Milwaukee—E. A. Swendson, 714 National Ave. taking bids and opens same about March 6, 1 story and part basement, 150 x 200 ft., brick and concrete garage, plain foundation. National Ave. $75,000. W. J. Kozick, 664 26th St., archt. Noted Feb. 8.

Mo., St. Louis—Laclede Gas Light Co., 11th and Olive Sts., taking bids and opens same about March 10, 1 and 2 story, 100 x 175 ft. brick, steel and concrete garage, and workshop, plain foundation, Forest Park Blvd. $50,000. A. Von Moore, c/o owner, engr.

Mo., St. Louis—March 10, by United Bakeries Corp., Grand Blvd. and Natural Bridge Rd., 1 and 2 story, 75 x 130 ft., rein.-con. and brick plant, plain foundation, Benton St. $100,000. A. J. Tuchschmidt, Rialto Theatre Bldg., archt. Noted Feb. 15.

Tex., Houston—See "Excavation, Drainage, Irrigation."

BIDS RECEIVED

Minn., Minneapolis — Murphy Transfer Co., 309 3rd Ave. N., opened bids Feb. 20, 4 story and basement, 114 x 119 ft. warehouse, and 2 story and basement, 68 x 149 ft. garage, rein.-con., brick and tile, 4th St. and 9th Ave. N., general contract from W. M. Murphy & Son, 616 Endicott Bldg., St. Paul, $155,000; J. Peterson, 3152 10th Ave. S., $161,933; Victorson Constr. Co., 126 South 9th St., $166,709. Noted Feb. 15.

Calif., Oakland—State Dept. Pub. Wks., Sacramento, power house, recreation building employees' cottage and women's shop building, at Industrial Home for Adult Blind, here, from F. W. Maurice, 1362 East 22nd St., $45,760; A. H. Vogt, 185 Stevenson St., San Francisco, $46,113; E. T. Leiter & Sons, 3601 West St., Piedmont, $47,867. Noted Feb. 1.

CONTRACTS AWARDED

Mass., Chicopee—Moore Drop Forge Co., 38 Walter St., Springfield, 1 story, 76 x 103 ft. addition to factory, brick and steel, plain foundation, to Adams & Ruxton, 387 Main St., Springfield. Archts. est. $60,000.

Mass., Springfield — Standard Electric Time Co., 89 Logan St., 3 story, 50 x 90 ft. factory addition, Logan St., to W. W. Davis, Bellevue Ave. Archts. est. $60,000. Noted Jan. 18.

R. I., Providence—Goldberger & Steiner, Olneyville Sq., 1 story, garage and service station, concrete and steel, plain foundation, Library Court, to Puro Constr. Co., Providence (street address not available). Archts. est. $40,000. Noted Jan. 11.

R. I., Providence—Providence Wholesale Drug Co., Chestnut St., 2 story, 70 x 140 ft. factory, brick and timber, plain foundation, Chestnut St., to Industrial Constr. Co., 334 Westminster St. Archts. est. $55,000.

Conn., New Haven—Larkin-Carey Co., 166 Brewery St., will build 1 story, 65 x 216 ft. garage and service station, brick, steel and concrete, plain foundation, Whalley Ave., by day labor. $50,000. H. Castor, St. Girard Bldg., Phila., archt.

Conn., Thompsonville—Bigelow-Hartford Carpet Co., 4 story, 135 x 470 ft. factory, brick and timber, plain foundation, to L. E. Locke & Sons Co., South Union St., Lawrence. Archts. est. $550,000.

Conn., Waterbury — Waterbury Farrel Fdry. and Machine Co., Bank St., 2 story, 55 x 120 ft. factory addition, brick and steel, plain foundation, to Immick Co., State St. Extension, Meriden. Archts. est. $75,000.

N. Y., Albany — Van Slyke & Horton, Brick, steel and concrete factory, Clinton Ave., to W. G. Sheehan Constr. Co., 28-30 De Witt St., $150,000.

N. J., Trenton—New Jersey Twin Hoist Co., 201 Calhoun St., manufacturing plant, to W. R. Thropp Sons Co., 968 East State St., $100,000.

O., Cincinnati—Williamson Heater Co., 335 West 5th St., 1 story, 100 x 400 ft., brick, steel and concrete factory, to H. K. Ferguson Co., 6523 Euclid Ave., Cleveland. Archts. est. $150,000.

O., Cleveland—Atlas Fdry. Co., Shaw Ave. along tracks of Cleveland, Cincinnati, Chicago & St. Louis R.R., 1 story, 100 x 140 ft., brick and steel foundry, West 69th St. along tracks of Wheeling & Lake Erie R.R., to Uhl-Jaster Co., 1900 Euclid Ave. Archts. est. $50,000. Noted Jan. 14.

O., Cleveland—Commercial Bookbinding Co., 2231 West 110th St., 2 story and basement, 100 x 156 ft., brick and steel factory, to Dolinsky Bros., 2214 East 83rd St. Archts. est. $50,000. Noted Feb. 15.

O., Cleveland—Clover Meadow Creamery Co., 1823 East 55th St., 1 story, 80 x 92 ft., brick and steel garage, East 57th St. and Belvidere Ave., to Super-Built Constr. Co., Union Bldg. Archts. est. $40,000. Noted Jan. 25.

O., Cleveland—Perfection Trailer & Mfg. Co., 1453 West 110th St., 2 story, 100 x 200 ft., brick and steel factory, West 100th St., to H. Noderer, 3913 Cecelia Ave. Archts. est. $60,000. Noted Feb. 8.

O., Cleveland— Lincoln Fireproof Storage Co., 5660 Euclid Ave., 7 story, brick and concrete storage warehouse, Cedar Rd. and East Boulevard, to G. A. Rutherford Co., 2725 Prospect Ave. Archts. est. $225,000. Noted Jan. 18.

O., Cleveland—J. W. Wilson, Fidelity Mortgage Bldg., 2 story, 45 x 100 ft., brick and steel workshop, 5205 Euclid Ave., to Hearthstone Building Co., 8514 Carnegie Ave. Archts. est. $40,000.

O., Cleveland — Sterling Mfg. Co., 2845 Prospect Ave., 2 story, 67 x 100 ft., brick and rein.-con. factory addition, to S. W. Emerson Co., 1836 Union Bldg. Archts. est. $75,000.

Ind., Shelbyville — Kennedy Car Liner Mfg. Co., 1 story, 250 x 400 ft., brick, steel and concrete factory, to H. K. Ferguson Co., 6523 Euclid Ave., Cleveland, O. Archts. est. $250,000.

Ill., Chicago—A. B. Hayward Co., 849 West Ohio St., 1 story, 253 x 256 ft. factory, rein.-con., brick and steel, Sheffield and Marcy Sts., to F. H. Stowell Co., 28 North Clinton St. Archts. est. $50,000.

Wis., Biron (Wisconsin Rapids P. O.)—Consolidated Water Power & Paper Co., Wisconsin Rapids, will build 1 story and basement, 58 x 300 ft. and 64 x 72 ft. addition to paper mill here, brick and concrete, plain foundation, by day labor. $50,000. L. A. De Guere, Wisconsin Rapids, engr.

Wis., Kenosha—A. Allen Co., 1000 Prairie Ave., 5 story and basement, 90 x 150 ft., manufacturing plant, brick and concrete, plain foundation, Prairie Ave., to W. W. Oefleln, 86 Michigan St., Milwaukee. Engrs. and archts. est. $280,000.

Wis., Rhinelander — Rhinelander Paper Co. will remodel 1 story, 70 x 220 ft., machine shop, brick and steel, by day labor. $40,000. L. A. De Guere, Wisconsin Rapids, engr.

Wis., Sheboygan — Northern Furniture Co., South Water St. and New Jersey Ave., 1 story, 185 x 200 ft., brick and rein.-con. factory, plain foundation, to F. Gelb & Co., Sheboygan (street address not available). Archts. est. $50,000.

Ia., Clarinda—Swift & Co., c/o H. Gilmore, mgr., 76 West Monroe St., Chicago, general contract 4 story, 76 x 164 ft. cold storage plant, brick and concrete, here, to Collins Bros., 1600 Grand Ave., Kansas City, Mo. Archts. est. $135,000. Noted Jan. 4.

Minn., Minneapolis — State Bd. Control, Capitol, St. Paul, 3 story and basement, rein.-con., brick and tile storehouse and shops, State "U," general contract to Madsen Constr. Co., 848 Builders Exchange, $119,000. Noted Feb. 8.

Minn., St. Paul—Twin City Motor Car Co., 1428 Harmon Pl., Minneapolis, 2 story and basement, 60 x 138 ft. garage and sales building, rein.-con., brick and stone, 5th and Exchange Sts., here, general contract to H. C. Struchen, 405 Dakota Bldg., $56,341. Noted Feb. 1.

Mo., Kansas City—W. Jewell, Jr., Rialto Bldg., 2 story and basement, 93 x 132 ft., rein.-con., brick and steel garage, 9th and Oak Sts., by day labor. $65,000. Wilkinson & Crans, 608 Interstate Bldg., archts.

Mo., St. Louis—Missouri Pacific Ry., Railway Exch. Bldg., 1 and 2 story, 147 x 202 ft., brick, steel and concrete machine shop, plain foundation, 3033 Chouteau Ave., to J. J. Woellner & Son, East St. Louis, Ill. (street address not available). $96,000.

Mo., St. Louis—Terminal R.R. Assn., 1800 Market St., 1 story, 43 x 520 ft., rein.-con. and brick warehouse-shop addition, 500 South 12th St., to Doerman Constr. Co., 1441 Syndicate Trust Bldg., $50,850.

Calif., Fresno—Herminghaus Estate, 1 story, 125 x 150 ft., garage, L St., between Tuolumne and Merced Sts., to Davis-Heller-Pearce Co., Weber and California Sts., Stockton, $40,000. Waterman Bros., Tulare and L Sts., lessee. Noted Dec. 21.

Calif., Los Angeles—Union Pacific R.R., 610 South Main St., constructing power house, garage, car repair and blacksmith shop, boiler shops, traveling cranes and round house, brick, frame and corrugated iron, in vicinity of Belvedere Gardens, to Lynch & Gannon Eng. Co., Chapman Bldg., $500,000.

Calif., Orland—Ford Garage Agency, 1 story, 80 x 100 ft., rein.-con. garage, 5th and Swift Sts., to H. C. Hauck, Orland.

Calif., San Francisco—Real Estate Development Co., Hearst Bldg., two 1 story, rein.-con. warehouses, 17th and Kansas Sts. and 1 story rein.-con. warehouse, 17th and Arkansas Sts., to G. Wagner, 251 Kearny St., $60,000 each.

Buildings

PROPOSED WORK

Me., Auburn—High School—School Dept. plans 3 story, brick and steel. $400,000. Engineer or architect not announced.

Mass., Amherst—Library—Jones Memorial Library plans to construct library, $500,000. G. Cutler and J. H. Tyler, Amherst, trustees. Engineer or architect not selected.

Mass., Boston—Club—Dartmounth College Alumni Assn., c/o J. R. Chandler, chn., 120 Water St., having preliminary plans prepared, club, Trinity Pl. and Stuart St. Engineer or architect not selected.

Mass., Boston—Hospital—Massachusetts General Hospital, Fruit St., plans 10 story, rein.-con. and brick, Fruit St. $300,000. Engineer or architect not selected.

Mass., Brighton (Boston P. O.)—Apartment—Brighton, Carlin & Cherney, Warren St., plan three 6 story, each 75 x 90 ft., rein.-con., brick and stone, wood pile foundation, Warren St. $300,000. Engineer or architect not announced.

Mass., Brighton (Boston P. O.)—Apartments—Meltzer & Snider, Brookline, had preliminary plans prepared one 5 story and three 4 story, rein.-con. and brick wood pile foundation, Strathmore and Orkney Rds. $280,000. Engineer or architect not announced.

Mass., Brighton (Boston P. O.)—Hospital, etc.,—Florence Crittendon League, 505 Tremont Temple, Boston, having plans prepared by H. F. Kellogg, archt., 110 Summer St., Boston, 4 story, hospital and nurses home, stone, Oak Sq., here. $250,000.

Mass., Cambridge (Boston P. O.)—Gymnasium—Massachusetts Institute of Technology, 491 Boylston St., Boston, having preliminary plans prepared 2 story, 100 x 150 ft., brick and concrete, here. $1,000,000. Probably private plans.

Mass., Forest Hills (Boston P. O.)—Apartment—Boston Dwelling House Co., c/o

Buildings (Continued)

W. B. Cushway, mgr., Jamaica Plain (Boston P. O.), having plans prepared by Mulhall & Holmes, archts., 248 Boylston St., Boston, 3 story, 100 x 300 ft., 6 courts, brick and limestone, wood pile foundation, West Bourne Rd. $200,000.

Mass., Pittsfield—Hospital—St. Luke and St. Boylans Hospital plans 3 story, East St. $150,000.

Mass., Springfield — Apartment—Lincoln Realty Trust, 387 Main St., having plans prepared by H. C. Hearne, archt., 387 Main St., 4 story, 90 x 300 ft., brick, plain foundation, Lincoln St. $450,000.

Mass., Springfield—Y. M. C. A. plans 8 story, brick and concrete, at rear of present building $150,000. B. H. Hoover, secy. Engineer or architect not announced.

R. I., Pawtucket—Church, etc.—St. Jean de Baptiste Church, c/o A. Graton, pastor, Harrison St., soon takes bids 1 story and tower, 80 x 172 ft., brick and stone church and 2 story, 26 x 30 ft. rectory, Slater St. $350,000. Private plans. Noted Feb. 1.

R. I., Woonsocket—Church—Universalist Church Parish, c/o G. Henshaw, archt., 87 Weybosset St., Providence, having plans prepared 1 story and basement, stone. $150,000.

R. I., Woonsocket—Home and Club—Woonsocket Lodge 850, B. P. O. E., having plans prepared by W. F. Fontaine, archt., Federal Bldg., 4 story, brick, Federal St. $150,000.

Conn., Greenwich—High School Building Comn., having plans prepared by Guilbert & Betelle, archts. and engrs., 546 Broad St., Newark, N. J., 3 story and basement, brick, concrete and steel, plain foundation, West Elm St. $800,000.

Conn., New Haven—Office—Security Insurance Co., 115 Elm St., plans office, Whitney Ave. $300,000. Engineer or architect not selected.

N. Y., Akron—High School—Bd. Educ. plans high school. $285,000. Engineer and architect not selected.

N. Y., Batavia — Theater and Office—Syndicate of theater owners plan modern fireproof, Jackson St. $175,000-$200,000. W. Krieger, chn. of com.

N. Y., Brooklyn—School—Bd. Educ., 500 Park Ave., New York, plans P. S. 206, brick, steel and stone, plain foundation, Elmore Pl. $1,000,000. W. H. Gompert. Flatbush Ave. extension and Concord St., archt. and engr.

N. Y., Buffalo—Hotel—Hotel Touraine, 274 Delaware Ave., plans improving and building 2 and 4 story rein.-con., brick and steel addition. $250,000. J. Howie, pres.

N. Y., Carthage — School — Bd. Educ. Wilna School Dist. 1, having plans prepared by S. S. Kieff, archt., Flower Bldg., brick and concrete school addition. $200,000. E. Villars, 821 State St., pres.

N. Y., Eggertsville—School—Voted $18,000 bonds for site and $182,000 for school, Eggertsville Rd. Bids to be called for in March. Bley & Layman, 250 Delaware Ave., Buffalo, archts. Noted Feb. 8.

N. Y., Mt. Vernon—Bank and Office—Eastchester Savings Bank having plans prepared by Holmes & Winslow, archts. and engrs., 134 East 44th St., New York City, 6 story, brick, steel and stone, plain foundation. $500,000.

N. Y., New York—Loft—Maxal Realty Co., c/o Schwartz & Gross, archts. and engrs., 347 5th Ave., having plans prepared 20 story, 75 x 100 ft., brick, steel and stone, plain foundation, 330 7th Ave. $1,500,000.

N. Y., New York—Theatre—B. F. Keith, 1564 Bway., plans brick, steel and stone, plain foundation, Bway. $1,000,000. Private plans.

N. Y., Perry—Hotel—Chamber of Commerce plans new hotel. $150,000. R. Smith, pres.

N. Y., Portchester—Bank and Office—First Natl. Bank having plans prepared by Holmes & Winslow, archts. and engrs., 134 East 44th St., New York City, 3 story, brick, steel and stone, plain foundation. $300,000.

N. Y., Schenectady—Hospital and Sanitarium—Schenectady Co. plans new hospital and sanitarium. $500,000. I. P. Estcourt, 25 Front St., clk. Engineer and architect not selected.

N. J., Annandale—Hospital—Amer. Legion, c/o J. D. Sears, post commander, 203 East State St., Trenton, plans tuberculosis hospital here. $250,000. Engineer and architect not selected.

Number of Contracts Let in January and February, 1923

	New England	Middle Atlantic	Southern	Middle West	West of Mississippi	Western	Total
Water-works	....	8	4	14	26	3	55
Sewers	....	8	5	12	16	6	47
Bridges	5	1	11	5	30	3	55
Excav. and dredging	....	2	....	1	3	6	12
Streets and roads	2	18	35	27	105	27	214
Industrial works	24	50	9	71	22	17	193
Buildings	20	110	24	73	38	40	305
Federal Government work	....	18	11	4	1	12	46
Miscellaneous	4	23	5	11	16	9	68
	55	238	104	218	257	123	995

N. J., Trenton—Show Room and Apartment—E. D. Cook, Jr., 413 Bellevue St., having plans prepared by W. A. Klemann, archt., 1st Natl. Bank Bldg., 6 story, brick and steel, Prospect St. $200,000.

Pa., Jersey Shore—School—Bd. Educ. having plans prepared by F. A. Rianhard, archt., Masonic Temple, Williamsport, 3 story and basement, 80 x 110 ft. rein.-con. and brick, Broad St.

Md., Baltimore—Hospital—Hebrew Hospital plans 7 story, brick and steel, Monument St. between Bway. and Wolfe St. $800,000. L. C. Coblentz, pres. J. E. Sperry, Calvert Bldg., archt.

D. C., Wash.—Office, etc.—C. L. Payne, Munsey Bldg., having plans prepared by P. M. Julian, archt., Commercial Natl. Bank Bldg., office and newspaper building, 1321 H St., N. W., $200,000. G. M. McCabe, 96 5th Ave., New York City, associated archt.

D. C., Wash.—School—St. Paul Parochial School, 15th St. and New Hampshire Ave., had plans prepared by Milburn-Heister Co., archts., 710 14th St., for school. $150,000.

Va., White Sulphur Springs—Hotel—White Sulphur Springs Co. having plans prepared by Elzner & Anderson, archts., Citizens Natl. Bank Bldg., Cincinnati, O., 7 story, 180 x 380 ft., steel and brick, plain foundation. $700,000.

W. Va., Huntington—Exchange and Office—Coal Exch. Bldg. Co., c/o A. Solof, 1107 4th Ave., having plans prepared by Meanor & Handloser, archts., Robson-Prichard Bldg., 14 story and basement, 60 x 114 x 170 ft., rein.-con., steel and stone and brick, 4th Ave. and 11th St. $750,000.

W. Va., Huntington — Hospital — State Bd. Control, Charleston, having plans prepared by R. M. Bates, Jr., archt., Cammack Watts Bldg., 3 story and basement, 70 x 240 ft., brick, tile, stone and steel, Spring Hill, here. $150,000.

W. Va., Huntington—Schools—Bd. Educ. having plans prepared by Meanor & Handloser, archts., Robson-Prichard Bldg., 3 story and basement, grade school, Monroe Ave., $150,000; by R. M. Bates, archt., Cammock Watts Bldg., 3 story and basement, high school, 25th St., $150,000.

N. C., Charlotte—Office—J. M. Scott, 18 South College St., having plans prepared by C. C. Hook, archt., Trust Bldg., 4 story, 30x 200 ft., stone and steel. $150,000.

N. C., Charlotte—Theatre—J. H. Cutter, Commercial Bank Bldg., plans theatre, West Trade St. $200,000. Engineer or architect not announced.

N. C., Hendersonville—High School—City plans large fireproof high school. $300,000. Engineer or architect not selected.

Miss., Brookhaven—High School—Bd. Educ. having plans prepared by E. J. Hull, archt., Daniel Bldg., Jackson, for high school. $150,000.

Tenn., Chattanooga—Lodge—Knights of Pythias having plans prepared by R. H. Hunt, archt., James Bldg., 8 story, 79 x 100 ft., brick, plain foundation, 7th and Pine Sts. $150,000.

O., Arcanum—High and Grade School—Bd. Educ. having plans prepared by Hall & Lethly, archts., 806 Fairbanks St., Springfield, 2 story and basement, brick and concrete. $150,000.

O., Avondale (Cincinnati P. O.)—Hotel Apartment—C. C. and E. A. Weber (owners and archts.) Ingalls Bldg., Cincinnati, preparing plans 80 x 112 ft. brick, plain foundation, Reading Rd. and Gholson Ave., here. $700,000.

O., Canton—Hospital—Stark Co. plans tuberculosis hospital, on farm south of city. $162,000. Thayer & Johnston, 5716 Euclid Ave., Cleveland, archts.

O., Canton—Theatre—A. H. Abrams having plans prepared by Carmichael & Millspaugh, archts., 67 East Long St., Columbus, 3 story and basement, 95 x 110 ft. rein.-con. and brick. $200,000.

O., Cincinnati—Apartment—Fourth and Bway. Apartment Co., 4th and Main Sts., having plans prepared by H. Hake, archt., Telephone Bldg., 10 story, 4th and Bway.

O., Cincinnati—School—St. Augustin Congregation, Bank St. near Freeman St., having plans prepared by Kunz & Beck, archts., Carew Bldg., 3 story and basement, 48 x 116 ft., brick plain foundation, Bank St. between Freeman and Boymillen Sts. $150,000.

O., Cleveland—Apartment—H. Abrams, 204 Ulmer Bldg., having plans prepared by M. Weis, archt., 617 Union Bldg., 4 story, 37 x 120 ft., brick and steel, 1826 East 82nd St. $150,000.

O., Cleveland—Apartment—W. P. Crady, 3148 East Overbrook Rd., having plans prepared by R. H. Hinsdale, archt., Bangor Bldg., 4 story, 48 x 128 ft., brick and timber, East 132nd St. $150,000.

O., Cleveland—Apartment—W. Vretman, 3328 Euclid Ave., had plans prepared by Walker & Weeks, archts., 1900 Euclid Ave., 4 story, 50 x 100 ft., brick, steel and concrete, 3328 Euclid Ave. $150,000.

O., Cleveland—Display, etc.—L. L. Carlozzi Co., 1258 East 105th St., having plans prepared by W. S. Ferguson Co., archts., 1900 Euclid Ave., 2 story, 101 x 120 ft., brick, steel and concrete automobile display and garage, Ansel Rd. and Superior Ave. $150,000.

O., Cleveland—Hospital and Asylum—Italian Home Building Co., c/o P. Garbo, 13815 Drexmore Rd., having plans prepared by C. R. Greco, archt., Guardian Bldg., 4 story, brick and steel. $500,000.

O., Columbus — Apartment — Barnhart-Seiller Co., 36 West Gay St., plans 3 story and basement, 162½ x 243 ft., brick, concrete and stucco, 2nd Ave. and High St., by day labor. $600,000. Architect not selected.

O., Dayton — High School — St. Marys Church plans 3 story and basement, rein.-con., brick and stone. $175,000. H. W. Germann, Schwind Bldg., archt.

O., East Cleveland (Cleveland, P. O.)—Apartment—Estates and Investment Co., c/o F. L. Tenbusch, treas., 5809 Euclid Ave., Cleveland, having plans prepared by M. Weis, archt., 617 Union Bldg., Cleveland, 4 story, 69 x 149 ft., brick and timber, Euclid Ave. and Weymore Rd., here. $200,000.

O., Gambier—Dining Hall, etc.—Kenyon College plans dining hall $200,000, science hall $150,000, central heating plant $75,000, renovating Ascension Hall $50,000, Kenyon Inn $50,000. A. Garfield, Natl. City Bldg., Cleveland, archt.

O., Hartwell—School—Bd. Educ., having plans prepared by Garber & Woodward, archts. and engrs., 2803 Union Central Bldg.,

Buildings (Continued)

Cincinnati, 2 story, 136 x 336 ft., brick and rein.-con. slab, Sheffield Ave. $350,000.

O., Lakewood (Cleveland P. O.)—Apartment—Loveto Development Co., co A. W. Kautz, 1283 Westlake Ave., Cleveland, having plans prepared by P. E. Robinson, archt., Hippodrome Bldg., Cleveland, 4 story and basement, brick and steel, Detroit and Grace Aves., here. $300,000.

O., Norwood (Cincinnati P. O.)—Exchange—Cincinnati Suburban Bell Telephone Co., Telephone Bldg., Cincinnati, plans exchange, here. $200,000. H. Hake, Telephone Bldg., Cincinnati, archt.

O., Piqua—High Schools—Bd. Educ. rejected bids opened Feb. 20, Wilder High School, 2 story, 76 x 234 ft. with 20 x 64 ft. wings and Bennett High School, 2 story and basement, both brick and concrete. Will readvertise. Schenck & Williams, 908 Mutual Home Bldg., Dayton, archts.

O., Westwood (Cincinnati P. O.)—Exchange—Cincinnati Suburban Bell Telephone Co., Telephone Bldg., Cincinnati, plans exchange, here. $200,000. H. Hake, Telephone Bldg., Cincinnati, archt.

Mich., Benton Harbor — Clubhouse — Michigan Club, Otis Bldg., Chicago, having plans prepared by H. P. Sturgis, archt., 79 West Monroe St., Chicago, and takes bids in early spring, 3 story and basement, rein.-con. and brick hotel, plain foundation, also two 18 hole golf courses, in Forest Park. $250,000. Noted Nov. 2.

Ill., Chicago—Apartment—A. L. Himelblau, archt., 179 West Washington St., preparing plans 3 story and basement, 124 x 200 ft., rein.-con., brick and steel, Jackson St. and Central Ave. $300,000. Owner's name withheld.

Ill., Chicago—Apartment—A. L. Himelblau, archt., 179 West Washington St., preparing plans three 3 story, 180 x 358 ft., rein.-con., brick and steel, Washington St. near Le Claire St. $800,000. Owner's name withheld.

Ill., Chicago — Apartment-Hotel — Graemere Hotel Bldg. Corp., c/o W. W. Ahlschlager, archt., 65 East Huron St., plans 8 story, rein.-con., brick and steel, Washington and Homan Sts. $2,000,000.

Ill., Chicago—Church—B'nai Bezelel Congregation, c/o D. S. Klafter, archt., 64 West Randolph St., plans rein.-con., brick and steel, 6028 Champlain Ave. $250,000.

Ill., Chicago — Temple — Temple Mizpah Congregation, c/o M. Spitzer, archt., 115 South Dearborn St., plans 1 story, 106 x 165 ft., rein.-con., brick and steel, Ashland Ave. and Morse St. $500,000.

Ill., Chicago—University—DePaul University, 1010 Webster Ave., soon receives bids 4 story, rein.-con., brick and steel, liberal arts building, Osgood St. near Belden St. $250,000. Foster, Elbert & Sandel, 56 East Randolph Sts., archts.

Ill., West Pullman—School—Assumption Catholic Congregation c/o T. Langfort, 544 West 123rd St., having plans prepared by E. Brielmaier & Sons Co., Inc., archts., 432 Bway., Milwaukee, Wis., 2 story and basement, 70 x 115 ft., brick and tile, 123rd and Parnell Sts. $150,000.

Wis., La Crosse—Bank—Natl. Bank of La Crosse, 1428 Main St., having plans prepared by Cady & Crosby, archts., 179 West Washington St., Chicago, 2 story and basement, 50 x 50 ft. addition, brick, concrete and stone, plain foundation, Main St. $150,000.

Wis., La Crosse—Schools—School Bd. had plans prepared by O. A. Merman, archt., 210 Linker Bldg., and soon takes bids 3 story, part basement, 114 x 159 ft., grade school, brick, tile and concrete, plain foundation, 8th and Division Sts., $225,000; 2 and 1 story and basement vocational school, brick, tile and concrete, plain foundation, $150,000. Noted Feb. 8.

Wis., Milwaukee — Apartment-Hotel — R. Razall, archt., 114 Grand Ave., preparing plans 3 story and basement, 102 x 118 ft. and 50 x 116 ft., brick, tile and concrete, plain foundation, East Side. $200,000. Owner's name withheld.

Wis., Milwaukee—Hospital, etc.—Misericordia Hospital, 2224 Chestnut St., having plans prepared by Backes & Pfaller, archts., 216 West Water St., 5 story and basement, 45 x 122 ft. hospital, 1 story, 50 x 100 ft. power house and laundry building, 1 story 40 x 40 ft. kitchen, brick, tile and concrete, plain foundation, Chestnut St. $175,000.

Wis., Milwaukee—Hotel—O. Brachman, 425 East Water St., having preliminary plans prepared by M. Tullgren & Sons Co., archts. and engrs., 425 East Water St., 9 story and basement, 100 x 150 ft., brick and concrete, plain foundation, Wells St. $900,000.

Wis., Milwaukee—Hotel—Hotel Medford, 3rd and Sycamore Sts., having plans prepared by C. Barkhousen, archt., 79 Wisconsin St., 4 story, 75 x 120 ft. addition, brick, concrete and steel, 3rd St. $450,000.

Wis., Milwaukee—Office—Realty Impvt. Co., c/o O. Brachman, 425 East Water St., having preliminary plans prepared by M. Tullgren & Sons Co., archts., 425 East Water St., 7 story and basement, 50 x 150 ft., brick and concrete, plain foundation, Wells St. $500,000.

Wis., Wauwatosa—Seminary—Wisconsin Evangelical Lutheran Synod, c/o J. Brenner, pastor, 814 Vliet St., Milwaukee, having preliminary plans prepared by Clas, Shepherd & Clas, archts., 445 Milwaukee St., Milwaukee, 2 and 3 story, school, also dormitory and administration building, brick, stone and concrete, plain foundations, Spring and 12th Aves. $300,000.

Ia., Ames—High School—Voted $200,000 bonds for high school. Noted Feb. 1.

Ia., Boone—March 12 to vote on $225,000 bonds for school. Architect not selected.

Ia., Cedar Rapids—School—Sacred Heart Academy having plans prepared by C. B. Zaleski, archt., 615 Amer. Trust Bldg., stone and rein.-con. addition. $200,000.

Ia., Davenport—School—March 12, to vote on $150,000 bonds for school additions. Engineer and architect not selected.

Ia., Le Mars—High School—March 12 to vote on $150,000 bonds for high school addition. R. J. Koehler, secy. School Bd. Engineer and architect not selected.

Minn., St. Paul—Gymnasium, etc.—Macalester College, Grand and Snelling Aves., having general campus plans prepared by W. M. Ingeman, 637 Endicott Bldg., St. Paul, and E. D. Litchfield & Rogers, 477 5th Ave., New York City, archts., for group of buildings, incl. 3 story, rein.-con., brick and tile gymnasium, $150,000, and chapel, to be built first; dormitory and library later.

Kan., Ft. Scott—Church—First Presbyterian Church, 3rd and Crawford Sts., plans 2 story and basement, brick, stone and rein.-con. $100,000. Engineer and architect not selected.

Kan., Junction City—High School—Bd. Educ. plans high school. $250,000. H. E. Chandler, clk. Engineer and architect not selected.

Kan., Lawrence—Auditorium—State appropriated $300,000 to construct auditorium for University of Kansas, here. R. L. Gamble, Topeka, state archt.

Kan., Parsons—High School—Bd. Educ. plans rein.-con., stone and brick, 28th and Main Sts. $400,000. H. Hughes, secy. Engineer and architect not selected.

S. D., Capa—Sanitarium—Capa Hydro Sanitarium having plans prepared by J. C. Ewing, archt., Rapid City, three 2 story and basement, 120 x 124 ft. rein.-con., brick, steel and stone buildings. $250,000.

Wyo., Casper — Church — Presbyterian Church Assn., plans brick or stone, 8th and Wolcott Sts. $150,000. Architect not announced.

Mo., Cape Girardeau—Hotel—L. L. Van Dervoort, Vandervoort Hotel, Paragould, Ark., interested in syndicate which plans 6 to 8 story, rein.-con. and brick, plain foundation, Bway., here. $300,000. Engineer and architect not selected.

Mo., Kansas City—Business—F. E. McIlvain, archt., Orear-Leslie Bldg., preparing plans 5 story and basement, rein.-con. and brick, 1009 Main St. To exceed $150,000. Owner's name withheld.

Mo., Kansas City—Hotel—Gate City Lodge, F. & A. M., 522, having plans prepared by Lodge & Gornall, archts., 1505 Commerce Bldg., 7 story and basement, rein.-con. and brick, 31st and Troost Aves. $275,000. J. A. Kellan, 507 Mutual Bldg., secy. building com. Noted Dec. 15, 1921.

Mo., Kansas City—Office—H. H. Hill, archt., 2920 Wabash St., preparing plans 30 story and basement, 200 x 200 ft., rein.-con., brick and steel office building and garage. Owner's name withheld.

Mo., Kansas City—Theater—Amusement Holding Corp., 4203 Holmes St., having plans prepared by C. Boller & Bro., archts., 508 Ridge Arcade, 1 story, basement and balcony, 66 x 150 ft., rein.-con., brick and steel, 2,000 seating capacity, Archibald St. and Bway. $150,000.

Mo., Liberty—High School—Voted additional $100,000 bonds and takes bids within 20 days, for 3 story and part basement. Total cost $225,000. C. A. Smith, Finance Bldg., Kansas City, archt. Noted Jan. 4.

Mo., St. Louis — Apartment — Fairmont Hotel Co., Chemical Bldg., had plans prepared by N. Howard, archt., Arcade Bldg., 10 story, 147 x 216 ft., rein.-con. and brick, concrete pile foundation, Euclid St. $500,000.

Mo., St. Louis—Apartment—S. Kopiar, 5759 Waterman Ave., plans 150 x 254 ft., probably 10 story, rein.-con. and brick, concrete pile foundation, Union St. $600,000.

Mo., Springfield—Church—First Presbyterian Church having plans prepared by H. H. Hunt Co., archts., Southwestern Life Bldg., Dallas, Tex., 2 story, brick and stone, South Jefferson St. $175,000. J. T. Bacon, Olive and Jefferson Sts., pastor.

Tex., Houston—Schools—April 9, to vote on $3,000,000 bond issue for general school improvements. W. A. Dowdy, city archt.

Tex., Tyler—High School—March 15, to vote on $250,000 bond issue for junior high school. H. J. Graeser, city mgr.

Okla., Oklahoma City — Hospital — Baptist Church, 1201 North Robinson St., had plans prepared by R. F. Herbert, 305½ North Robinson St., and C. W. Welborn, 100 West Choctaw St., archts., 5 story and basement, 140 x 168 ft., brick, 511 West 12th St. $350,000.

Okla., Tulsa—Church—First Presbyterian Church, 7th and Boston Sts., plans 2 story and basement, rein.-con. and brick, 7th and Boston Sts. $300,000. Engineer and architect not selected.

Colo., Denver—Store—May Co., 16th and Champa Sts., plans 7 story, 79 ft. front, on Champa Sts. between 16th and 17th Sts. $500,000. Engineer or architect not selected.

Nev., Reno—Hotel—C. S. Knight, pres. Chamber of Commerce, is head of company which plans hotel, 3 or more stories, fireproof. $250,000 or more. Engineer and architect not selected.

Ariz., Tucson—Library—University of Arizona having plans prepared by Lyman & Place, archts., 79 North Stone Ave., for library. $175,000.

Wash., Seattle—Office and Store—Lawton & Moldenhour, archts., Alaska Bldg., opens bids about March 30, 7 story, steel and concrete, 4th and Pike Sts., for Bigelow Bldg. Co.

Ore., Portland—Office—Medical Building Assn. Com.; takes bids about April 15. 12 story, probably rein.-con., Taylor, 10th and 11th Sts. $1,000,000. W. Bruce, Henry Bldg., archt.

Calif., Alhambra—Hotel and Store—F. I. Lamb, 126 South Cordova St., having plans prepared by Scott & Quinton, archts., San Gabriel, 4 story, 145 x 175 ft., brick, Main St. $250,000.

Calif., Huntington Park—Schools—Huntington Park Union High School Dist. will vote on $500,000 bonds and Huntington Park City School Dist. will vote on $90,000 bonds for school improvements.

Calif., Los Angeles—Apartment—L. Cross, c/o Walker & Eisen, archts., Pacific Finance Bldg., 4 story and basement, brick, Hollywood Blvd., to Lange & Bergstrom, Washington Bldg., $260,000.

Calif., Los Angeles—Clubhouse—Southern California Country & Athletic Club, c/o Engineering Service Co., archts., Washington Bldg., had plans prepared 3 story, rein.-con. To exceed $200,000.

Calif., Los Angeles—Hospital—St. Vincents Hospital Assn., 1151 Sunset Blvd., having plans prepared by J. C. Austin, archt., Baker-Detwiler Bldg., group of fireproof buildings. To exceed $1,000,000.

Calif., Los Angeles—Hotel—M. Dozier, c/o Eldredge & Jewell, archts., Pacific Finance Bldg., had plans prepared 4 story and basement, rein.-con. and brick, West 11th St. $150,000.

Calif., Los Angeles—Hotel—E. H. Janfen, et al., c/o H. Cross, archt., Merchants' Natl. Bank Bldg., having plans prepared 6 story, brick, Francisco St. $150,000.

Calif., Los Angeles — Office — Southern Counties Gas Co., Montebello St., having plans prepared by Walker & Eisen, archts., Pacific Finance Bldg., 2 and 3 story, rein.-con., Atlantic St. To exceed $150,000.

Calif., Merced—Office, Store, etc.—Kahl & Healy, are at head of building association being formed and having sketches prepared by N. R. Coulter, archt., 46 Kearny St., San Francisco, 5 story and basement, fireproof, L and 19th Sts. $300,000.

Calif., Oakland—Lodge, Store and Office—Elks Hall Assn., c/o W. Knowles, archt., Bacon Bldg., Oakland, and Hearst Bldg., San Francisco, having plans prepared 8 or 9 story, fireproof, 14th St. near Franklin St. $750,000.

Calif., Pleasanton—School—Amador Valley Union High School Dist., had plans prepared by H. C. Smith, archt., Humboldt Bank Bldg., San Francisco, 1 and 2 story, rein.-con. with 2 wings. $150,000.

Buildings (Continued)

Calif., Riverside—College—Riverside High School Dist., having plans prepared by G. S. Wilson, archt., 646 West 9th St., 2 story, concrete. $150,000.

Calif., Riverside—High School—Riverside High School Dist., having plans prepared by G. S. Wilson, archt., 646 West 9th St., 2 story, brick, also additional rooms to Palm School. To exceed $150,000.

Calif., San Francisco—Apartment—Huntington Apartments, had plans prepared by Weeks & Day, archts., California Insurance Bldg., 12 story, steel, California and Taylor Sts. $1,500,000. E. B. De Golia, 114 Sansome St., pres.

Calif., San Francisco—Hospital—Mount Moriah Hospital Assn., c/o C. Werner, archt., Santa Fe Bldg., having plans prepared 6 story, first unit. $225,000. Total cost $1,000,000.

Calif., San Francisco—Market Terminal—Pope & Talbot, 3rd and Berry Sts., had plans prepared by C. A. Meussdorffer, archt., Humboldt Bank Bldg., for first unit, 2 story rein.-con., 1,700 ft. frontage, 3rd, 2nd, King and Berry Sts., $500,000. Ultimate cost $2,000,000.

Calif., Santa Monica—Apartment—Rapp & Harrison, c/o A. B. Rosenthal, archt., Orpheum Theatre Bldg., Los Angeles, had plans prepared 8 story, rein.-con., Ocean Ave and Montana St. To exceed $300,000.

Calif., Stockton—Office—See "Industrial Works."

Que., Montreal — Schools — Protestant School Comrs., University St., plans 3 story, 27 room brick, on Cote St. Paul, Ville Emard, $250,000, J. S. Archibald, 314 Dorchester St. W., archt.; also plan 15 room addition to Rosemount School, $150,000. D. R. Brown, 285 Beaver Hall Hill, archt.

Ont., Hamilton — Church — Westminster Presbyterian Church plans 1 story, brick and stone, King St. and Melrose Ave. $150,000. W. L. Williams, pastor.

B. C., Point Grey—Library—University of British Columbia, 10th and Willow Sts., Vancouver, having plans prepared by Sharp & Thompson, archts., London Bldg., Vancouver, 3 story and basement, rein.-con., granite, brick and tile. $200,000 for 1st unit.

BIDS DESIRED

N. Y., Brooklyn—Market—H. E. Witteman, 188 Montague St., 28 x 170 ft., brick and steel, plain foundation, Flatbush Ave. $250,000. Work will be done by separate contracts.

N. Y., Syracuse—High School—April 2, by Bd. Educ., 17th Ward Junior High School, 2 story and basement, 200 x 300 ft., brick, steel and stone. $450,000. A. L. Brockway, Syracuse Savings Bank Bldg., archt. Noted Feb. 1.

Pa., Phila. — Clubhouse — March 7, by B.P.O.E., Juniper and Race Sts., 15 story and basement, 163 x 197 ft. rein.-con., brick and steel, caisson foundation, Broad and Wood Sts. $2,000,000. A. J. Sauer & Co., Denckla Bldg., archts.

Pa., Phila.—Schools—March 8, by Bd. Educ., 3 story and basement, 148 x 171 ft. rein.-con., brick and steel, 54th and Berks Sts., $450,000, also 3 story and basement, 148 x 171 ft. brick and steel, 17th and Lindley Aves., $450,000, both plain foundations. Private plans. Noted Jan. 11.

N. C., Raleigh—Office—G. L. Preacher & Co., archts., Commercial Bank Bldg., receiving bids 10 story and basement, rein.-con., brick and stone, Hargette St., for Odd Fellows Lodge, Home Bldg. $400,000. Noted Aug. 3.

Ga., Atlanta—Schools—March 16, by Bd. Educ., c/o J. N. Landers, city purch. agt., City Hall, 3 story and basement, 77 x 276 ft., concrete and stone 8th and 10th Sts. Robert & Co., Tuft Bldg., engrs. Hentz, Reid & Adler, 92½ North Forsyth St., archts.

O., Cincinnati — School — March 26, by Clerk Bd. Educ., Hartwell School, 2 story, 136 x 336 ft., brick, plain foundation, Springfield Pike. $350,000. Garber & Woodward, Union Central Bldg., archts. and engrs.

O., Cleveland — Apartment — M. Teplitz, 10003 Columbia Ave., taking bids 4 story, 37 x 124 ft., brick and timber, 1864 East 82nd St. $150,000. M. Weis, 617 Union Bldg., archt.

O., Cleveland—Sales, etc—W. S. Ferguson Co., archts., 1900 Euclid Ave., taking bids and opens same about March 6, 3 story and basement, 54 x 190 ft., brick and rein.-con. salesroom and garage, 2000 Euclid Ave., for Studebaker Corp. of America, 2020 Euclid Ave. $300,000. Noted Dec. 14.

SEWER—MICHIGAN CITY, IND.

Following are lowest and highest bids opened Dec. 18, by city, for constructing South Side District Sewer. Byrne Bros. Constr. Co., 258 East 115th St., Chicago, Ill., were awarded the contract using reinforced-concrete pipe.

	Monolithic Concrete		Reinforced Concrete		Brick		Segment Block	
3,840 lin.ft. 72 in. (6 ft.)	$41.80	$54.61	$40.30	$59.00	$42.30	$56.10	$45.00	$47.50
940 lin.ft. 66 in. (5½ ft.)	29.35	41.20	27.85	50.00	29.85	47.00	39.00	42.00
1,560 lin.ft. 48 in. (4 ft.)	22.02	24.68	20.52	39.85	22.52	52.00	30.50	33.00
9,360 lin.ft. 42 in. (3½ ft.)	22.15	20.90	20.65	31.00	22.65	27.25	24.25	29.00
2,380 lin.ft. 36 in. (3 ft.)	15.90	15.61	14.40	24.00	16.40	21.00	22.15	24.75
2,100 lin.ft. 30 in. (2½ ft.)	11.60	12.58	10.10	19.00	12.10	16.00	16.50	20.25
2,990 lin.ft. 24 in. (2 ft.)	9.63	11.46	8.13	7.65	10.13	8.70	7.00	8.05
2,378 lin.ft. 12 in. (1 ft.)	2.27	5.50	2.27	2.25	2.27	2.25	2.00	2.40
77 manholes	100.00	130.00	100.00	105.00	100.00	105.00	100.00	125.00
67 catch basins and connections	110.00	85.00	110.00	100.00	110.00	105.00	100.00	125.00
1 bulkhead	1,000.00	1,900.00	1,000.00	1,100.00	1,000.00	1,100.00	1,000.00	950.00
100 cu.yd. rock excavation	2.50	5.00	2.50	10.00	2.50	10.00	5.00	6.25
Extended totals	$542,490	$611,574	$507,735	$768,015	$554,075	$702,988	$612,973	$826,354

ROAD WORK—OREGON

Following are lowest three bids opened Feb. 6, by State Highway Comn., Portland, for constructing 6 mi. of The Dalles-California Highway, High Grade section, Wasco Co., (A) Elliott, Scoggins & Pacquet, McKay Bldg., (awarded contract using corrugated iron pipe); (B) Montague O'Reilly, Blake-McFall Bldg.; (C) E. A. Webster. The unit bids were as follows:

	A	B	C
Clearing and grubbing (lump sum)	$250.00	$250.00	$1,000.00
30,000 cu.yd. common excavation	.40	.42	.40
160,000 cu.yd. solid rock excavation	.95	.97	.95
76,000 sta. yd. overhaul	.04	.04	.05
2300 lin.ft. 12-in. plain concrete pipe	2.50	1.90	2.00
650 lin.ft. 18-in. reinforced concrete pipe	3.00	3.50	3.50
330 lin.ft. 24-in. reinforced concrete pipe	4.50	4.70	5.00
80 lin.ft. 36-in. reinforced concrete pipe	7.50	8.35	12.00
2300 lin.ft. 12-in. corrugated galvanized iron pipe	1.50	1.49	1.50
650 lin.ft. 18-in. corrugated galvanized iron pipe	2.75	2.43	3.00
330 lin.ft. 24-in. corrugated galvanized iron pipe	3.30	3.10	4.00
80 lin.ft. 36-in. corrugated galvanized iron pipe	5.75	5.80	6.00
490 cu.yd. class A concrete	45.00	31.50	33.00
71 cu.yd. class C concrete	45.00	25.00	33.00
47,000 lb. metal reinforcement	.12	.07	.10
100 cu.yd. riprap	100.00	75.00	100.00
4M ft. b.m. lumber and timber	2.00	3.00	5.00
Extended totals using concrete pipe	$197,125	$201,054	$202,398
Extended totals using corrugated galvanized iron pipe	$194,050	$200,273	$200,273

O., Cleveland — Store — March 5, by Bedell Cloak & Suit Co., 19 West 34th St., New York City, 6 story and basement, 75 x 132 ft., brick, steel and concrete, 746 Euclid Ave., here. $250,000. G. H. Schonewald, Grand Central Terminal, New York City, archt. Noted Jan. 18.

O., Lorain—Schools—March 12, by Bd. Educ., 2 story, 12 room addition, Oakdale and East 20th Sts., $150,000 and 2 story, 12 room high school addition, 31st and Seneca Sts., $150,000, both brick, steel and concrete. F. C. Warner, Hippodrome Annex Bldg., Cleveland, archt.

O., Mount Blanchard—School—March 12, by Bd. Educ., 2 story, 91 x 136 ft. brick, steel and concrete. $150,000. R. M. Hulsken, 216 West Market St., Lima, archt.

Mich., Detroit—Clubhouse—Stratton & Snyder, archts., 1103 Union Trust Bldg., taking bids 8 story and basement, 90 x 120 ft., rein.-con., brick, steel and stone, plain foundation, Elizabeth St. and Park Blvd., for Women's City Club, 141 Bagley Ave. $500,000. Noted Jan. 18.

Ill., Chicago—Apartment—C. A. Ackley, 1447 East 63rd St., receiving bids 3 story, 62 x 160 ft., rein.-con., brick and steel, 64th and Blackstone Sts. $175,000. T. R. Bishop, 35 South Dearborn St., archt.

Ill., Chicago—Dormitory—Northern Baptist Theological Seminary c/o S. M. Seator, archt., 19 South La Salle St., receiving bids 3 story, 40 x 175 ft., rein.-con., brick and steel dormitory and school. Washington and Albany Sts., $150,000. Noted Jan. 4.

Ill., Chicago — Office — Owner, c/o A. J. Browne, Tower Bldg., receiving bids 4 story, 86 x 163 ft., rein.-con., brick and steel addition, Madison St. and Michigan Ave. $400,000. Holabird & Roche, 104 South Michigan Ave., archts.

Ill., Chicago—Store and Office—D. S. Klafter, archt., 64 West Randolph St., receiving bids 2 story; 250x255 ft., rein.-con., brick and steel, Milwaukee and Crawford Aves., for I. M. Mills c/o architect. Noted Jan. 25.

Ill., Winnetka—School—Perkins, Fellows & Hamilton, archts., 814 Tower Court, Chicago, receiving bids 2 story, 50x63 ft., rein.-con., brick and steel, Woodlawn and Sunset Aves., here, for New Trier High School Twp. Bd. c/o architects. $165,000.

Wis., Green Bay—Hotel—M. Tullgren & Sons, archts., 425 East Water St., Milwaukee, taking bids on superstructure for 8 story, 130 x 160 ft., brick and concrete, plain foundation, Pine St., for Hotel Wisconsin Realty Co., 86 Michigan St., Milwaukee. Total $850,000. Noted Dec. 7. See item under "Miscellaneous."

Wis., Lancaster—High School—March 14, by School Bd., 2 story and basement, 100 x 200 ft., brick, tile and concrete, plain foundation. $175,000. E. J. Morse, pres. Parkinson & Dockendorff, Linker Bldg., La Crosse, archts.

Wis., Madison — School and Church — F. L. Kronenberg, archt., Carroll Bldg., taking bids 2 story and basement, 150 x 200 ft., brick, rein.-con. and steel, plain foundation, Hollister St., for Blessed Sacrament Church. $150,000.

Ia., De Witt—School—March 10, by Bd. Educ., 2 story and basement, 138 x 138 ft., rein.-con., brick, tile and stone. $150,000. H. Seifert, secy. J. C. Wood & Co., Clinton, archts. Noted Nov. 23.

Minn., Minnetonka Beach—Club House—March 16, by Lafayette Club, c/o C. M. Harrington, pres., 713 Chamber of Commerce, Minneapolis, 1, 2 and 3 story and basement, rein.-con., brick and tile. $275,000. Hewitt & Brown, 1200 2nd Ave. S., Minneapolis, archts.

Minn., Virginia—City Hall, etc.—March 17, by H. C. Bickford, city clk., 3 story, 112 x 137 ft. City Hall, and 2 story, 112 x 250 ft. recreational unit, rein.-con., brick and stone. $400,000. German & Jenssen, Exch. Bldg., Duluth, archts. and engrs. Noted May 11.

Tex., Austin—Hotel—March 15, by Baker Hotel Co., San Antonio, and Sanguinet, Staats & Gottlieb, archts. and engrs., 1st Natl. Bank Bldg., Ft. Worth, 16 story, 90 x 110 ft., rein.-con. and brick. $500,000.

Tex., Beaumont — High School — City Comn. taking bids 2 story and basement, rein.-con. and brick, plain foundation. $165,000. A. Babin, 15 Blanchett Bldg., Beaumont, engr. C. H. Page & Bros., Austin Natl. Bank Bldg., Austin, archts. Noted Nov. 30.

Tex., San Antonio—Schools—March 6, by School Bd., three one story and two 2 story, rein.-con., brick and stone schools, (1) at San Pedro and Mulberry Sts. (2) Josephine St. (3) Berkshire and Yorkshire Sts. (4) Morales and Zarzamora Sts. (5) Darragh site. Five separate jobs each to be figured separately. $800,000. W. E. Simpson & Co, Natl. Bank of Commerce Bldg., engrs. Phelps & Dewees, Gunter Bldg., archts. Noted Feb. 22.

Colo., Denver—Church—Montjoy & Frewen, archts., Chamber of Commerce Bldg., taking bids and opens same about March 15, 75 x 150 ft., brick and rein.-con., (1st unit), for Sacred Heart Parish, 23rd and York Sts. $200,000.

Calif., Crockett—School—March 7, by Trustees Carquinez School Dist., 2 story, brick and concrete, $235,000. A. A. Brown,

Buildings (Continued)
c/o Matson Navigation Co., 120 Market St., San Francisco; archt.. Noted Oct. 19.

Calif., Los Angeles—Home—California Lutheran Hospital Assn., 1414 South Hope St., receiving bids 4 story and basement, brick and concrete, 15th St. To exceed $150,000. J. J. Frauendfelder, Story Bldg., archt.

Calif., San Francisco—Office—A. Boyd Estate, c/o S. L. Hyman, archt., Foxcroft Bldg., receiving bids 10 story, fireproof, Taylor and O'Farrell Sts. $300,000.

Ont., Belleville—College—March 5, by H. W. Ackerman, secy. Bldg. Com. Bd. Educ., 3 story and basement, 30 room, concrete, brick and steel. $250,000. Chapman & Oxley, Harbor Bldg., Toronto, archts. Noted Feb. 8.

BIDS RECEIVED

N. Y., New York — Schools — W. H. Gompert, archt. Bd. Educ., Flatbush Ave. extension and Concord St., Brooklyn, opened bids Feb. 23, (1) addition to P. S. 12, Frisby Ave. and Overing St., (2) addition to P. S. 33, Jerome and Walton Aves. between East 184th St. and Fordam Rd., Bronx Boro, from G. E. Dekempe, New York Ave., Union Hill, N. J., (1) $239,000 (2) $82,000; Concord Constr. Co., 139 Baxter St., (1) $255,555; T. J. Waters Co., 271 West 125th St., (1) $264,800 (2) $97,780; M. F. Kelly Co., Inc., (2) $94,945. Noted Feb. 15.

O., Cleveland Heights (Warrensville, P. O.)—City Hall, Police and Fire Station—For 2 story, brick, steel and concrete, 2953 Mayfield Rd., from C. A. Carson Co., 7016 Euclid Ave., Cleveland, $181,900; C. Peterson Co., 4500 Euclid Ave., Cleveland, $184,250.

O., Columbus—Administration, etc.—C. E. Steele, secy. Bd. Trustees Ohio State University, opened bids Feb. 20, (1) 3 story and basement, 100 x 180 ft. administration building (2) 4 story and basement, 75 x 145 ft. medical science building, both brick, stone and concrete on campus, (a) general contract (b) plumbing (c) heating and plumbing, from D. W. McGrath & Sons, 255 East Broad St., (1a) $304,700 (2a) $238,847; E. Elford, 307 East Gay St., (1a) $313,000 (2a) $225,000; E. H. Latham, 60 East Broad St., (1a) $319,000; Huffman & Wolfe, 669 North High St., (1b) $29,183 (2c) $38,399; Fitzpatrick & Hoepfner, 63 East Gay St., (1b) $32,300 (2c) $38,140; Boyajohn & Baer, 8 East Broad St., (2a) $238,000. Noted Feb. 8.

Wis., Kenosha—Grade Schools—School Bd. opened bids Feb. 20, two 2 story and basement, brick, tile and concrete, plain foundations, on Fairfield Ave. and Bronson St., general contract, from M. Madsen, Builders Exch., Minneapolis, Minn., $117,500 each; J. Stocker, 101 North Brocket St., $120,000 each; Bondgard & Christensen, Mound Ave. and Mead St., Racine, $144,360 each. Noted Feb. 8.

Minn., Minneapolis—High School—Bd. Educ. opened bids Feb. 23, 3 story and unfinished basement, 45 x 250 x 300 ft., with 1 story, 60 x 80 ft. wing, rein.-con., brick and tile, 26th St. and Emerson Ave. S., general contract from Madsen Constr. Co., 848 Builders Exch., $345,000; Kvitrud & Madsen, 754 Builders Exch., $354,850; Standard Constr. Co., 1101 Plymouth Bldg., $355,325. Noted Feb. 15.

Calif., Oakland—Store and Office—Ambassador Realty Co., 7 story, rein.-con., 17th St. and Bway., from Dinwiddie Constr. Co., Crocker Bldg., San Francisco, $149,200; Macdonald & Kahn, 130 Montgomery St., San Francisco, $155,167; Walters & Grove, Monadnock Bldg., San Francisco, $155,183. Noted Feb. 8.

Calif., Taft—High School—Taft Union High School Dist., group rein.-con. buildings, general contract from W. J. Ochs, Coalinga, $185,800; Olchester, Patten & Kerr, Selma, $189,000; Campbell Constr. Co., Nicolaus Bldg., Sacramento, $333,636; Cobby & Owsley, 74 New Montgomery St., San Francisco, (combination bid $223,900). Noted Jan. 25.

CONTRACTS AWARDED

Mass., Boston—Health—City (George Robert White Fund), 3 story, 75 x 100 ft., rein.-con. and brick, wood pile foundation, Battery and Commercial Sts., general contract to J. Slotnick Co., 448 Bway., Chelsea, (Boston P. O.), $146,837. Noted Jan. 18.

Mass., Dorchester (Boston P. O.)—High School—City of Boston, high school, rein.-con. and brick, wood pile foundation, Dunbar Ave., here, to J. Slotnick Co., 448 Bway., Chelsea (Boston P. O.), $871,911. Archts. est. $1,000,000. Noted Jan. 18.

Mass., Boston—Office—Washington-Essex Real Estate Trust, 59 Temple Pl., 8 story, brick, stone, concrete and steel, Washington, Essex and Harrison Sts., to G. B. H. Macomber Co., 44 Bromfield St. Archts. est. $750,000.

Mass., Springfield — Hotel — Hampden Hotel Co., 140 Chestnut St., 10 story, 45 x 60 ft., addition, Hillman St., to E. J. Pinney, 374 Main St., $148,000. Archts. est. $150,000.

Conn., New Haven—Church—St. Boniface Roman Catholic Church, 229 George St., 1 story and tower, 55 x 120 ft., stone and brick, plain foundation, State St., to M. J. Gibbud Co., 100 Water St. Archts. est. $150,000. Noted Dec. 14.

N. Y., Albany—School—Bd. Contract & Supply, general contract P. S. 4, 2 story and basement, 68 x 198 ft. with 45 x 59 ft. wing, Madison Ave. and Ontario St., to J. Dyer, Jr., 17 Steuben St., $386,980; heating and ventilating work, to W. B. Armstrong Co., 3 Fulton St., $34,888. Noted Jan. 25.

N. Y., Brooklyn — Apartments — Trieb Building Corp., c/o M. A. Cantor, archt. and engr., 373 Fulton St., two brick, steel and stone, plain foundations, 18th Ave. and 48th St., by day labor. $150,000 each.

N. Y., Endicott—School—Bd. Educ. Union Free School Dist. 1, new school, West Endicott, to Endicott-Johnson Corp., 108 East Main St., $235,000.

N. Y., Lockport—Theatre and Office—Lock City Theatres, Inc., brick, steel and concrete, Elm St. and East Ave., to J. Moon, 21 Main St. Archts. est. $150,000.

N. Y., New York—Apartments—Burnside Development Corp., c/o G. G. Miller, archt. and engr., 1482 Bway., two 5 story, brick, steel and stone, plain foundations, Burnside Ave., by day labor. $150,000 each.

N. Y., New York—Apartment—C. Glaser, c/o W. Hohauser, archt. and engr., 116 West 39th St., 5 story, brick, steel and stone, plain foundation, East 175th St., by day labor. $160,000.

N. Y., New York—Apartment—Glick-Rose Holding Co., c/o D. S. Lang, archt. and engr., 110 West 34th St., 6 story, 54 x 100 ft., brick, steel and stone, plain foundation, Bway. and 175th St., by day labor. 350,000.

N. Y., New York—Apartment—J. E. Mautuer, c/o S. Cohen, archt. and engr., 45 West 57th St., 5 story, 90 x100 ft., brick, steel and stone, plain foundation, Cauldwell Ave. near 165th St., by day labor. $400,000.

N. Y., New York—Apartment—J. D. Pederson, c/o G. G. Miller, archt. and engr., 1482 Bway., 5 story, 125 x 175 ft., brick, steel and stone, plain foundation, Waldo Ave. near 238th St., by day labor. $250,000.

Md., Baltimore—School—Bd. Awards, 4 story, 87 x 237 ft., rein.-con. and brick, 36th St. west of Falls Rd., to C. L. Stockhausen Co., Gay and Water Sts., $534,937. Noted Feb. 22.

N. C., Raleigh—Theatre and Office—Raleigh Theatre Co., 8 story and basement, rein.-con., brick, tile and marble, Salisbury St., to J. E. Beaman, Commercial Bank Bldg., $264,750.

Ga., Atlanta—Schools—For 3 story and basement, rein.-con., on Houston St. near Randolph St., to Service Co., 180 Auburn Ave., $211,725; 3 story and basement, rein.-con., Beecher St., to McDevitt Fleming Co., 702 Forsyth Bldg., $220,168.

O., Cincinnati — Apartment — Vernon Manor Co., 16 East 17th St., 7 story and basement, 90 ft. high, 140 x 208 ft., rein.-con. and brick, plain foundation, Burnett and Oak Aves., to Ferro Concrete Constr. Co., 3rd and Elm Sts., $1,250,000. Noted Sept. 28.

O., Cleveland—Office and Commissary—Clark Restaurant Co., 1954 East 6th St., 2 story and basement, 112 x 120 ft., brick, steel and concrete, East 23rd St. south of Payne Ave., to W. Dunbar Co., 8201 Cedar Ave. Archts. est. $150,000. Noted Feb. 1.

O., Columbus—Lodge—United Commercial Travelers of America, Russell and Park Sts., general contract, 2 story and basement, 75 x 153 ft., brick and stone, North Park St., to Willing Bros., Bellevue, $157,786. Noted Feb. 8.

O., Columbus—School—Bd. Educ., Madison Twp., 2 story, 50 x 56 x 70 x 199 ft., brick, steel and concrete, to C. Schneider & Son, Pennsylvania R.R. south of Fair Grounds, $145,800.

O., Dayton—Office, etc.—Standard Register Co., Albany St., general contract 2 story and basement, brick and rein.-con. office building and shop, Albany St., to Danis-Hunt Constr. Co., 907 Schwind Bldg., $100,000.

O., Greenville—High School—Bd. Educ., general contract 2 story, brick, steel and concrete, to Yager & Sons, Danville, Ill., $265,999; heating and ventilating work, to Wethers & Son, New Castle, Pa., $63,221. Noted Feb. 1.

O., Massillon—School—Bd. Educ., general contract, Lorin Andrews School, 2 story and basement, 101 x 225 ft., brick, steel and concrete, to James Meinhardt Contg. Co., Massillon, $199,890.

O., Vanlue—School—Bd. Educ., 2 story, 98 x 138 ft., brick, steel and concrete, to W. Smart, Fremont. Archts. est. $[illegible],000.

Ind., South Bend—Store—Robertson Bros., 8 story and basement, 100 x 1[illegible] ft., rein.-con. and brick, South Michigan St., to H. G. Christman Constr. Co., Room 302, Union Trust Bldg. Archts. est. $[illegible],000.

Mich., Benton Harbor—Hotel—W. Bastor, 7 story and basement, 1[illegible] x 100 ft. rein.-con. and brick, West Main St., to W. L. Reisinger Co., 464 Oakland Ave., Milwaukee, Wis., $340,000. Noted Nov. 2.

Ill., Chicago—Apartment—A. [illegible]nry, 4750 North Western Ave., 3 story, 9[illegible] x 120 ft. rein.-con., brick and steel, 2201-09 Eastwood St., to J. S. Erickson, 1424 Elsdale Ave. Archts. est. $150,000.

Ill., Chicago — Apartment — Plotke & Grosby, 2532 North Clark St., [illegible]00 x 100 ft., Kenmore and Winona Sts., [illegible]00 x 150 ft., Winthrop St. near Bryn Mawr St., 100 x 175 ft., Arlington Pl. near Clark St., and 100 x 190 ft., Wrightwood Ave. near Clark St., all 3 story and basement, rein.-con. brick and steel, to Barrett Constr. Co., 155 North Clark St. Archts. est. $400,000 $400,000, $450,000 and $450,000 respectively.

Ill., Chicago—Clinic—F. O. [illegible]e Money, archt., 5 North La Salle St., 2 story and basement, 80 x 161 ft., rein.-con., brick and steel, Monroe and Loomis Sts., to B. J. Regnell Co., 19 South La Salle St. Archts. est. $200,000. Owners name withheld.

Ill., Chicago — Office — Foreman Bros. Banking Co., 30 North La Salle St., remodeling Stock Exch. Bldg., to G. A. Fuller Co., 140 South Dearborn St. Archts. est. $200,000.

Wis., Milwaukee—Theatre and Office—Grand & Sixth Bldg., Inc., 425 East Water St., 8 story and basement, 150 x 205 ft., brick, concrete and steel, plain foundation, superstructure to Collins Bros., 1600 Grand Ave., Kansas City, Mo.; steel to Worden-Allen Co., Port Washington Rd. Archts. est. $1,500,000. Noted Jan. 18.

Minn., Minneapolis—Office—Northwestern Natl. Life Insurance Co., 3 story and basement, 58 x 113 x 118 x 137 x 175 ft., rein.-con., brick and tile, Indiana limestone front, 15th and Oak Grove Sts., general contract to J. L. Robinson Co., 511 South 7th St. Building complete $400,000. Noted Feb. 15.

Minn., Minneapolis — Office — Yeates & Son, 520 1st Natl. Soo Line Bldg., 6 story and basement, 80 x 105 ft., rein.-con., brick and tile, Nicollet Ave. and 9th St., general contract to J. Leck Co., 316 South 7th St., cost plus percentage basis. Total cost $350,000. Noted Jan. 25.

Minn., St. Charles—High School—Bd. Educ., 2 story and basement, 140 x 150 ft., rein.-con., brick and tile, general contract to P. Kramer, St. Charles, $117,920.

Kan., Kansas City—High School—Bd. Educ. general contract 3 story and basement, rein.-con., steel and brick, 18th and Haskell Sts., to Baer Eng. & Constr. Co., Leavenworth, $204,168; heating and ventilating, to Justus, Schenck & Co., Kansas City, Mo., (street address not available). $30,760.

Neb., Omaha—Apartment—Meyer Realty Co., c/o C. B. Kraus Co., 616 Keeline Bldg., 8 story and basement, fireproof, 38th St. between Dewey Ave. and Harney St., to Fleisher Constr. Co., 606 Builders' Exch., Minneapolis, Minn.

Mo., St. Louis—Church—Wedemeyer & Nelson, archts., Wainwright Bldg., 2 story, 105 x 127 ft., brick, tile and terra cotta, plain foundation, 3732 Natural Bridge Ave., to Dickie Constr. Co., Syndicate Trust Bldg., for Sixth Church Christ Scientist, 3730 Natural Bridge Ave. Archts. est. $200,000. Noted March 9.

Nev., Reno—Junior High School—Junior High School Dist. Bd., 2 story, brick, to J. C. Dillard, Reno, $139,140. Contract for gymnasium will be awarded later. Total estimate $200,000. Noted March 16.

Wash., Seattle—Office—Pacific Warehouse Co., Maritime Bldg., 11 story, 90 x 111 ft., concrete and steel, 1st and Virginia Sts., to be known as Terminal Sales Bldg., general contract to H. Pederson, Alaska Bldg. Archts. est. $500,000.

Calif., Fresno — Store and Office — K. Emerzian, c/o E. Mathewson, archt., Gory Bldg., will build 3 story and basement, 100 x 150 ft., rein.-con., Inyo and Van Ness Sts., by day labor. $300,000.

Calif., Los Angeles — Apartment — Wilshire—Carondelet Holding Co., c/o Russell & Alpaugh, archts., Story Bldg., 8 story, rein.-con., Wilshire Blvd., to Richardson Building Co., Story Bldg., $700,000.

B. C., Point Grey—Science—University of British Columbia, 10th and Willow Sts., Vancouver, completing 3 story, 45 ft. high, with 12 ft. basement, 60 x 250 ft. with 60 x 60 ft. wing, granite, brick and tile, (frame erected), to E. J. Ryan Contg. Co. Ltd., 445 Granville St., Vancouver. Archts. est. $650,000. Noted Nov. 30.

Federal Government Work

PROPOSED WORK

Pa., Phila.—Coal—U. S. Engineer, 815 Witherspoon Bldg., plans to purchase semi-bituminous coal for floating plant.

Pa., Phila.—Fuel Oil—U. S. Engineer, 815 Witherspoon Bldg., plans to purchase 40,000 bbl. fuel oil.

Md., Claibourne—Dredging U. S. Engineer plans dredging in Harbor, here.

D. C., Wash.—Hospital—U. S. Veterans Bureau, Arlington Bldg., plans U. S. Veterans Hospital, Mt. Alto, Wisconsin Ave., N. W.

W. Va., Huntington — See "Contracts Awarded."

Ala., Florence—Boilers—U. S. Engineer plans purchasing and installing 4 steam boilers.

Miss., Vicksburg—Metal, etc.—U. S. Engineer plans to purchase metal, etc., for Locks and Dams 5 and 8 Onachita River.

Tenn., Chattanooga—Lock Gates—U. S. Engineer will purchase Lock gates for Widows Bar Lock and Dam.

Ky., Louisville—Cement—U. S. Engineer plans to purchase portland cement for Dams 44 and 45 Ohio River.

Ky., Louisville—Piling—U. S. Engineer plans to purchase steel sheet piling for Dam 44, Ohio River.

Minn., St. Cloud—Hospital—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., having plans prepared by A. H. Stem, archt., 601 Endicott Bldg., St. Paul, group 2 and 3 story, rein.-con., brick, tile and stone hospital buildings, here. Noted Sept. 21.

Mo., Excelsior Springs—Hospital—Bureau Yards & Docks, Navy Dept., Wash., D. C., having plans prepared 3 additional buildings to U. S. Veterans Hospital, here.

Calif., San Diego—Water-Softening Plant—Spec. 4768—Bureau Yards & Docks, Navy Dept., Wash., D. C., rejected bids for water-softening plant at Naval Base, here. Noted Feb. 15.

BIDS DESIRED

N. Y., Buffalo—Wreck Removal—March 10, at office U. S. Engineer, Buffalo, removing wreck of steamer Arizona from St. Lawrence River at Cape Vincent; adv. this issue.

N. Y., New York—Dredging, etc.—March 20, at office U. S. Engineer, Army Bldg., 39 Whitehall St., dredging and rock removal in East River, here; adv. this issue.

Va., Quantico — Hangers — Spec. 4693—March 14, by Bureau Yards & Docks, Dept., Wash., D. C., marine flying field hangars, here.

Tenn., Memphis—Tank and Tower—March 22, at office, District Engineer, Mississippi River Dredging Dist., P. O. Box 1017, water tank and tower at U. S. Dredge Depot, here; adv. this issue. Noted Feb. 1.

Ind., Newburg—Lock—April 10 at office U. S. Engineer, P. O. Box 72, Louisville, Ky., constructing Lock 47, Ohio River, here; adv. this issue.

Neb., Mitchell—Tunnel, etc.—April 16, at office U. S. Recl. Service, Mitchell, constructing Tunnel 3 and concrete lining canal approaches to same on Ft. Laramie Canal, North Platte Project, Nebraska-Wyoming, near Haig. A. P. Davis, dir.; adv. this issue.

Mo., Kansas City—Extension—March 26, by Treas. Dept., Wash., D. C., Extension 3, incl. mechanical equipment, for U. S. Post Office and Court House, here. J. A. Wetmore, acting superv. archt.; adv. this issue.

Wash., Keyport—Extension—Spec. 4744—March 14, by Bureau Yards & Docks, Navy Dept., Wash., D. C., extension to torpedo storehouse, here. Noted Oct. 12.

Calif., Livermore—Hospital—March 29, by Director U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., Tuberculosis Hospital, here; adv. this issue. Noted Jan. 4.

H. T., Honolulu—Machinery, etc.—April 12 at office Constructing Quartermaster, Honolulu, machinery and equipment for refrigerating plant to be erected at Schofield Barracks, Oahu; adv. this issue.

BIDS RECEIVED

Pa., Phila.—Barge—U. S. Engineer, 815 Witherspoon Bldg., 1321 Walnut St., one 87 ft. steel oil barge, at Ft. Mifflin, here, from Noank Shipyard, Inc., Noank, Conn., $21,900; Charleston Dry Dock and Machine Co., 106 Concord St., Charleston, S. C., $27,811; W. Cramp & Sons Ship & Engine Building Co., Richmond and Norris Sts., $29,000. Noted Feb. 8.

Pa., Phila.—Dredging, etc.—Spec. 4738—Bureau Yards & Docks, Navy Dept., Wash., D. C., dredging, filling, wood bulkhead and concrete drain at Navy Yard, here. (1) work complete, from E. Fay & Sons, 2 South Mole St., (4a) $22,772 (90 days), (5a) $67,715 (150 days), (5c) $66,975 (150 days); McLean Contg. Co., Fidelity Bldg., Baltimore, Md., (4a) $14,954 (90 days), (5a) $72,965 (150 days); Amer. Dredging Co., Mariner and Merchant Bldg., (1) $0.33 (2d) $0.18 (2e) $0.18 (2f) $0.18 (3) $0.32; Delaware Dredging Co., 139 South 3rd St., (1) $0.378 (2a) $0.16 (2b) $0.158 (2c) $0.156 (2d) $0.147 (2e) $0.149 (2f) $0.158 (4b) $16,800 (5b) $72,150. Noted Jan. 25.

Pa., Pittsburgh—Houses—U. S. Engineer, two 2 story lockkeepers' houses at Lock 6, Monongahela River, (1) solid brick (2) hollow tile, brick veneer, from Charleroi Lumber Co., Charleroi (1) $18,376 (2) $18,130, W. L. Craft, South Brownsville, (1) $19,333 (2) $18,793; North Side Constr. Co., 6939 Hamilton Ave., (1) $22,104 (2) $21,804. Noted Jan. 4.

Miss., Gulfport—Refrigerating Equipment—Spec. 4780—Bureau Yards & Docks, Navy Dept., Wash., D. C., refrigerating equipment at U. S. Veterans Hospital, here, (1) work complete, from Clothel Refrigerator Co., 61 Bway., New York, (1) $19,480 (120 days), (2) $19,240; Brunswick-Kroeschell Co., 460 West Erie St., Chicago, (1) $24,516 (214 days); Wittenmeier Mchy. Co., 850 North Spaulding Ave., Chicago, $24,930 (200 days). Noted Feb. 1.

Miss., Gulfport—Stack—Spec. 4781—Bureau Yards & Docks, Navy Dept., Wash., D. C., radial brick stack at U. S. Veterans Hospital, here, from Webber Chimney Co., 332 South Michigan Ave., Chicago, $5,450 (200 days); H. R. Heinicke, Inc., 221 South New Jersey St., Indianapolis, Ind., $5,700; A. Custodis, 95 Nassau St., New York City, $6,035 (red) $6,235 (buff). Noted Feb. 15.

Calif., Crescent City—Stone, etc.—U. S. Engineer, 401 Custom House, San Francisco, furnishing 80,000 ton stone for repairing and extending present breakwater approximately 400 to 600 lin.ft., from A. D. Kern, Lumber Exch. Bldg., Portland, Ore., $1.97 per ton; W. B. Arndt, Crescent City, $6 with alternate bid $2.45 per ton. Noted Dec. 28.

CONTRACTS AWARDED

N. Y., Ft. Tilden—Plotting-Room, etc.—U. S. Engineer, 608 Army Bldg., 39 Whitehall St., New York, concrete plotting-room and switchboard room, here, to Pearce Co., Inc., 220 West 42nd St., New York, $29,457. Noted Jan. 18.

W. Va., Huntington—Lock Operating Machinery, etc.—U. S. Engineer, lock operating machinery for Dam 30, Ohio River, to H. P. Gazzam Machine Co., 3200 Penn Ave., Pittsburgh, Pa., Lot A, $7,995; to J. and J. B. Milholland Co., 714 5th Ave., Pittsburgh, Pa., Lot C, $6,739. Lots B and D rejected. Noted Dec. 28.

Fla., Jacksonville—Boat—U. S. Engineer, Jacksonville, 1 motor survey boat, to Burger Boat Co., Manitowoc, Wis., $4,925.

Ala., Florence—Steel Centering—U. S. Engineer, steel centering for arches of bridge over dam, here, to The Blaw-Knox Co., Freeport Rd., Pittsburgh, Pa., $22,050.

Tenn., Nashville—Barges—U. S. Engineer, 14 steel barges, to Penn Bridge Co., Beaver Falls, Pa., $156,535. Noted Jan. 4.

O., Cincinnati—Dredging Ladder—U. S. Engineer, Custom House, dredging ladder for 24 in. pipe line dredge, to J. and J. B. Milholland Co., 714 5th Ave., Pittsburgh, Pa., $35,497. Noted Jan. 4.

Mich., Battle Creek—Hospital—Director, U. S. Veterans Bureau, at office Quartermaster-General, 2306 Munitions Bldg., Wash., D. C., for Neuro-Psychiatric Hospital at Camp Custer, here, to A. Bentley & Sons, 201 Belmont Ave., Toledo, O., $2,174,680. Noted Feb. 22.

Tex., Galveston—Dredging—U. S. Engineer, dredging 30 ft. project in Houston Ship Channel, to United Dredging Co., 233 Bway., New York-City, $350,000. Noted Jan. 4.

Ore., Astoria—Dredging—Spec. 4615—Bureau Yards & Docks, Navy Dept., Wash., D. C., additional contract for 400,000 cu.yd. dredging at Naval Submarine and Destroyer Base, here, to Gilpin Constr. Co., foot of 14th St., $0.15 per cu.yd. Noted Feb. 8.

H. T., Honolulu—Dredging—U. S. Engineer, dredging in harbor, here, 1,250,000 cu.yd. excav., to Hawaiian Dredging Co., 854 Kuhuhuana St., $949,540. Noted Nov. 2.

Miscellaneous

PROPOSED WORK

Light and Power Lines—New York—Depew & Lancaster Light, Power & Conduit Co., 173 Central Ave., Lancaster, plans extending its light and power lines to towns of Cowlesville, Bennington, Strykersville, Java, Curriers, etc. $25,000. This corrects report in Feb. 1 issue.

Tract Development—Endicott, N. Y.—E. B. Jenny, 32 Vermont Ave., plans development of "Jenny Tract" incl. business buildings and shops. $2,000,000.

Power Development—Watertown, N. Y.—Voted $415,000 bonds to develop water power at Delano Island. P. B. Sutton, city engr.

Tunnel System Extension — Baltimore, Md.—Johns Hopkins University, Homewood, having plans prepared extension to tunnel system, incl. tunnel sewers, water and gas mains, electric feeders, high and low pressure steam and general distribution. C. L. Reeder, 916 North Charles St., engr.

Fire Department Equipment—Moundsville, W. Va.—See "Waste Disposal."

Dragline — Racine, Wis. — Racine Co. Drainage Comn., c/o L. J. Quinn, Badger Bldg., having specifications prepared for dragline for cleaning out open ditches. Private plans.

Steam or Gasoline Shovel—Sheboygan, Wis.— Having specifications prepared for steam or gasoline shovel for city use. C. N. Boley, City Hall, engr.

Tractor, etc.—Waukesha, Wis.—Waukesha Co. c/o C. J. Hahn, engr., Court House, plans to purchase tractor, steam or gas shovel and graders.

Steel Tanks—Salt Creek, Wyo.—Mid West Refining Co., Salt Creek, plans to purchase 500 steel Columbian tanks, 500 bbl. each. $250,000.

Road Oil—St. Louis, Mo.—G. Oetling, supply comr., soon takes bids about 800,000 gal. road oil of not less than 9.2 gravity at 60 deg. Fah. and of 2.0 to 2.7 viscosity (Engler) at 212 Deg. Fah.

Gas Mains—Corpus Christi, Tex. — See "Industrial Works."

Transmission Line—Washington—Washington Water Power Co., 825 Trent St., Spokane, plan 18 mi. power transmission line between Ephrata and Quincy. Will be used for irrigation purposes.

Terminal — Los Angeles, Calif. — Outer Harbor, Dock and Wharf Co., of which the Union Oil Co., Union Oil Bldg., has controlling interest, plans terminal, wharves, docks, etc., on harbor front. Cost several million dollars.

Storage Sheds — Stockton, Calif. — See "Industrial Works."

Curbstone—Montreal, Que.—Soon takes bids 5,000 ft. circular and 4,500 ft. straight curbstone, granite. L. O. Pion, purch. agt.

Road Equipment—Ottawa, Ont.—Plans to purchase asphalt equipment for laying asphalt pavements. A. F. Macallum, city engr.

BIDS DESIRED

Street Cleaning Machines—Albany, N. Y.—Bd. Pub. Wks., taking bids 3 automatic street cleaning machines. $7,000 each. F. A. Raven, comr.

Paving Stone, etc.—Buffalo, N. Y.—March 5, by Commissioner Pub. Wks., Municipal Bldg., purchasing paving stone, curbing, sand, gravel and crushed stone for street repairs for year ending Dec. 31, 1923. G. H. Norton, Municipal Bldg., engr.

Road Scrapers, etc.—Hoosick Falls, N. Y.—Town Bd. taking bids 2 road scrapers, dump wagons, road building and repairing tools. $1,000. F. H. White, village pres.

Building Materials—New York, N. Y.—March 8, by Bd. Purch., Municipal Bldg., furnishing and delivering building materials to Depts. Correction, Health, Parks-Manhattan, Parks-Brooklyn, Parks-Bronx, Parks-Queens, Police Dept. and Depts. Pub. Welfare and Water Supply, Gas & Electricity. G. A. Whalen, chn.

Steel Pipe, etc.—New York, N. Y.—March 9, by Bd. Purch., Municipal Bldg., furnishing and delivering steel pipe, pipe fittings, valves and expansion joints to Dept. Plant & Structures; c.i. pipe to Dept. Water Supply, Gas & Electricity. G. A. Whalen, chn.

Trucks—New York, N. Y.—See "Sewers."

Tank Trailors—Hackensack, N. J.—March 14, by Road Com. of Bd. Freeholders Bergen Co., at office of Clerk, Court House, two 1,000 gal. capacity tank trailors for transporting asphaltum. J. A. W. Donaldson, chn.; adv. this issue.

Stadium—Baltimore, Md.—March 7, by Bd. Awards, 1 story, 42 x 230 ft. stadium, 33rd St. $150,000. J. Pennington, 330 North Charles St., engr.

Miscellaneous (Continued)

Locomotive Crane, etc.—Richmond, Va.—J. G. Skelton, 1102 Virginia R & P Bldg., taking bids one 5 ton and one 10 ton locomotive crane with clam shell bucket, two 20 ton standard gauge double drum locomotive cranes, five 11 x 16 in. cylinder 36 in. gauge saddle tank locomotive.

Levee Work—Clarksdale, Miss.—March 13, by Bd. Levee Comrs. for Yazoo-Mississippi Delta, at its office, Clarksdale, enlargement of Trotters Emergency Loop, Sects. 53 and 54, involving 250,000 cu.yd. Work is straddle enlargement with land side borrow. W. L. Head, ch. engr.

Road Grader — Armstrong Mills, O.—March 10, at office T. J. Weekley, clk. Washington Twp., road grader to do heavy grading with a 16-32 tractor.

Road Machinery—Black River Falls, Wis.—O. Overlien, highway comr. Jackson Co., taking bids on road machinery incl. 12 ft. grader, 2 patrol graders and one tractor. W. Tibbits, comr. Noted Dec. 14.

Brick Chimney—Milwaukee, Wis.—March 9, by Sewerage Comn., 508 Market St., brick chimney, 175 ft. high, 12 ft. internal diameter, in connection with power house on Jones Island. J. H. Fowles, secy.

Lumber and Metal — Anamosa, Ia.—March 7 by Auditor Jones Co., furnishing 4 cars lumber and 3,000 ft. corrugated culvert metal. F. S. Yetter, Anamosa, engr.

Lumber, Piling, etc.—Oskaloosa, Ia.—March 7, by Auditor Mahaska Co., furnishing 78,685 ft fir lumber, 3,690 ft. red cedar piling and 6,100 ft. corrugated culvert metal. R. H. Tumy, Oskaloosa, engr.

Lumber, etc.—Washington, Ia.—March 14, by Auditor Washington Co., furnishing 331,000 ft. No. 1 common fir full sawed, and 3,000 ft. corrugated culvert metal. W. P. Rawn, Washington, engr.

Lumber, Piling, etc.—Winterset, Ia.—March 9, by Auditor Madison Co., furnishing 157,453 ft. standard sawed fir, 2,660 ft. red cedar piling, 4,500 ft. corrugated culvert metal and 5,000 lb. reinforcing. E. B. Hiatt, Winterset, engr.

Graders and Tractors, etc.—Crookston, Minn.—March 15, by H. J. Welte, aud. Polk Co., one 12 ft. blade grader, 2 standard 8 ft. graders with 10 ft. blades, and standard 4-horse graders equipped with 8 ft. blades, for maintenance work; also sectional concrete and metal culvert material; 1 heavy wheel tractor or one 10 ton caterpillar tractor.

Elevating Grader and Dump Wagons—St. Cloud, Minn.—March 20, by N. Thomey, aud. Stearns Co., 1 elevating grader, large size, and six ¾ yd. dump wagons. M. J. Cleveland, St. Cloud, engr.

Paving Materials — St. Paul, Minn.—March 5, by H. W. Austin, city purch. agt., paving materials for street repairs, incl. 600 ton limestone dust, 500 sq.yd. 3½ in. creosoted wood block, 2,400 sq.yd. sandstone blocks, 3,000 cu.yd. fine asphalt sand, 800 cu.yd. asphaltic sand, 600 ton asphalt, 3,275 cu.yd. crushed rock, 1,800 cu.yd. pea rock, for Bd. Pub. Wks., 1,700 bbl. portland cement, all sewer brick and pipe for 1923 season, all manhole frames and covers for 1923, for Bureau of Parks, 1,182 pieces oak and clear fir lumber. G. M. Shepard, city engr.

Wharves, etc.—Houston, Tex.—See "Excavation, Drainage Irrigation."

Excavator — Montreal, Que. — Chairman Executive Comn., City Hall, taking bids one trench excavator.

Road Oil, etc.—Brantford, Ont.—March 8, by C. S. Mayer, chn. Bd. Wks., furnishing road oil, asphalt cement, castings, cement and sewer pipe. $100,000. F. P. Adams, city engr.

BIDS RECEIVED

Road Oil—Urbana, Ill.—Furnishing 435,775 gal. road oil, from Indian Refining Co., Lawrenceville; Amer. Mexican Refining Co., 11 South La Salle St., Chicago; Azee & Hayes, Urbana; W. H. Cocking, Jacksonville; Roxana Refining Co., Wood River; all bid $0.0587. Noted Feb. 1.

Electrolier System—Berkeley, Calif.—Installing 151 electroliers in portions of University Ave., etc., from F. E. Newberry Electric Co., 417 Webster St., Oakland, $37,518; Osborn Electric Co., Turlock, $39,353; H. C. Reid Co., 115 Mission St., San Francisco $42,475. Noted Jan. 25.

Dump Bodies—San Jose, Calif.—Santa Clara Co. furnishing and delivering one or more Heil Hydro dump bodies, from Artana-Goeffrey, Santa Clara and River Sts., $877 each. Noted Feb. 1.

CONTRACTS AWARDED

Cable—New York, N. Y.—Bd. Purch., Municipal Bldg., weatherproof cable for Dept. Plant & Structures, to Standard Underground Cable Co., 50 Church St., $14,193. Noted Feb. 22.

Manholes, etc.—Baltimore, Md.—Mayor and City Council, 125,000 lb. manholes, sewer inlets and similar castings, to Greenmount Iron Wks., 883 Greenmount Ave., $0.0225 per lb. Noted Feb. 22.

Piles and Substructure—Cleveland, O.—Cleveland Electric Illuminating Co., Illuminating Bldg., concrete piles and substructure for 1 story electric service building, brick, steel and concrete, foot of East 70th St., to Great Lakes Dredge & Dock Co., Williamson Bldg., Total cost $300,000. Noted Oct. 5 under "Industrial Works."

Foundation — Green Bay, Wis.—Hotel Wisconsin Realty Co., 86 Michigan St., Milwaukee, plain foundation for 8 story, 130 x 160 ft., brick and concrete hotel, Pine St., to L. M. Hansen Co., East Walnut St. Total cost $850,000. See item under "Buildings."

Elevators—Duluth, Minn.—Russell-Miller Milling Co., 25th Ave. S.E. and Marshall St., Minneapolis, 6 story, 275 x 400 ft., rein.-con. and tile, Rieis Point, here, to Barnett & Record Co., 418 Lyceum Bldg., $975,000.

Truck Tractors — Minneapolis, Minn.—City, two 5 ton capacity, and two 3½ ton capacity truck tractors, (Stoughton Truck Co. make), for Garbage Dept., to Congress Garage Co., 315 South 8th St., $10,600. Noted Feb. 1.

Street Signs—St. Paul, Minn.—City, 485 street signs on posts, 67 special signs for Summit Ave. and 58 box signs for Lexington Ave., to Western Display Co., 301 Chestnut St., $5,564.

White Way—Dallas, Tex.—White way on Pacific Ave. from Lamar St. to Houston & Texas Central R.R. tracks to E. Ash Electric Co. & Western Electric Co., Scollard Bldg., joint contract $30,000. Engrs. est. $25,000. Noted Jan. 25.

Crushed Stone—Houston, Tex.—Harris Co., 10,000 cu.yd. crushed stone, to Vandaveer, Brown & Story, 2202 Polk Ave., Houston, $2.60 and $2.90 per cu.yd.

Steel Pipe—Portland, Ore.—Port of Portland Comrs., 916 Spalding Bldg., to Coast Culvert Co., Columbia Blvd. and Denver Ave., 2,000 ft. 30 in. electric butt weld steel pipe for dredges $6,800, with privilege of purchasing 2,000 ft. or more at $3.20 per ft.

Traveling Cranes—Los Angeles, Calif.—See "Industrial Works."

OFFICIAL PROPOSALS

Bids: Mar. 20.

Laying Cast Iron Pipe

Canandaigua, N. Y.

Sealed proposals will be received by the Board of Public Works at its office in the City Hall, Canandaigua, N. Y., until 7:30 o'clock p.m., March 20th, 1923, for the trenching and laying of Twelve Thousand Twenty-six (12,026) lineal feet of sixteen (16) inch Cast Iron Water Pipe and Eight Hundred (800) feet of twelve (12) inch Cast Iron Water Pipe and their various appurtenances.

Proposals must be enclosed in plain sealed envelopes and marked "Proposal for Trenching and Laying Cast Iron Water Pipe."

Plans may be seen and the specifications may be obtained at the office of the City Clerk, City Hall, Canandaigua, N. Y., or at the office of W. S. Lozier, Consulting Engineer, 321 Cutler Bldg., Rochester, N. Y.

Bids must be accompanied by a certified check for Two Thousand ($2,000.00) Dollars, payable to the Treasurer of the City of Canandaigua. In case of failure or neglect to enter into contract or furnish the necessary bond within the time specified, the certified check will be forfeited to the City of Canandaigua.

A performance bond to the sum of fifty (50%) per cent of the contract will be required.

The Board reserves the right to reject any and all bids or to accept any bid which it deems most favorable to the City.

BOARD OF PUBLIC WORKS.
HENRY A. BEEMAN.
WILLIAM GARRATT.
ROY E. POOL.

Bids: Mar. 12.

Furnishing and Installing Filter Plant Equipment

Bay City, Mich.

Sealed proposals for the furnishing and installing Filter Plant equipment will be received at the office of the City Manager, City Hall, Bay City, Michigan, until ten o'clock A.M., Eastern Standard Time, on March 12, 1923.

The contract will include filter piping and valves, wash water tanks, operating tables, strainer systems, chemical feed devices, rate controllers, Venturi meters and miscellaneous equipment for a water filtration plant for the City of Bay City, Michigan.

All bids must be made upon blank proposal forms furnished by the City and each bid must be accompanied by a proposal bond or certified check for $5,000. Bids will be compared on the basis of the engineer's estimate of quantities.

Surety bonds in the sum of 50% of the contract will be required of the successful bidder.

Plans, proposal forms, contract and specifications may be obtained at the office of the City Manager, City Hall, Bay City, Michigan, and also from The Frazier-Ellms-Sheal Company, Engineers, B. F. Keith Building, Cleveland, Ohio, upon deposit of fifty dollars, which deposit will be refunded upon return of plans and specifications in good condition.

The City reserves the right to accept any bid or to reject any and all bids.

WM. H. REID,
City Manager.

Bids: March 19.

Sewers

Pleasant Ridge, Mich.

Sealed bids will be received up to 8 p.m., March 19, 1923, by the Village Clerk at the Village Hall, Woodward Ave. and the Ten Mile Road, Pleasant Ridge, Michigan, for the construction of approximately 24,428 feet of 12" to 66" sewer. Sewers over 24" diameter may be built of brick, concrete, reinforced concrete pipe, or segment block. Sewers 24" in diameter and under shall be built of double strength vitrified pipe.

Plans and specifications are on file at the office of the Village Clerk and copies may be secured from the office of Clarence W. Hubbell, Consulting Engineer, 2348 Penobscot Bldg., Detroit. A deposit of $10.00 will be required for the plans and specifications which will be refunded upon their return in good order on or before March 26, 1923.

A certified check made payable to the Village of Pleasant Ridge for the sum of $7,000.00 must accompany each bid. In case of failure or neglect to enter into contract and furnish the required bonds within the time specified the check shall be forfeited to the Village as liquidated damages.

No proposals will be received unless made on the blanks furnished and delivered to the Village Clerk on or before 8 p.m., March 19, 1923.

The Village reserves the right to reject any or all bids.

By order of the Village Commission.
G. W. WESSINGER.
Village Manager.
O. C. KEIL.
Village Clerk.